

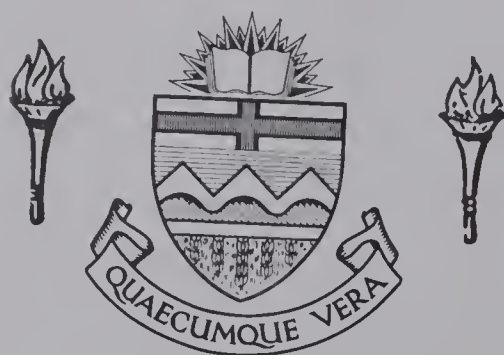
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LOW TEMPERATURE SERIES EXPANSIONS
OF THE ISING MODEL

by



CHARLES JAMES ELLIOTT

A THESIS

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE
OF DOCTOR OF PHILOSOPHY

DEPARTMENT OF PHYSICS

EDMONTON, ALBERTA

FALL 1969

1967
23

UNIVERSITY OF ALBERTA
FACULTY OF GRADUATE STUDIES

The undersigned certify that they have read,
and recommend to the Faculty of Graduate Studies for
acceptance, a thesis entitled "Low Temperature Series
Expansions of the Ising Model", submitted by
Charles James Elliott in partial fulfilment of the
requirements for the degree of Doctor of Philosophy.

ABSTRACT

A method of generating low temperature series coefficients for the Ising Model is developed. The method is an extension of the shadow lattice techniques developed by Sykes, Essam and Gaunt (1965) but eliminates the tedious hand enumeration of the complicated shadow lattice graphs. Instead it is shown how these graphs can be automatically generated by the application of simple permutation groups. The calculation of lattice constants of disconnected graphs has previously been done by the symbolic equation method which is tedious and subject to error. In Chapter V we show how this calculation can be reformulated and done using a straightforward recursive technique. In this way one can carry out these calculations very easily with the aid of a computer and be confident of the results. Although the methods described are more general they have been applied only to the body centred cubic (B.C.C.) lattice. A total of 10,674 graphs were used in the calculation resulting in an extension of the series of twelve new coefficients*.

*The group at King's College, University of London have extended this series five more terms but these have not been published.

A preliminary analysis of the series has shown that the new coefficients have not improved convergence greatly. Padé approximants to magnetization series however converge very well and we obtain an estimate of the critical point of $u_c = .53250 \pm .00005$ and of the exponent β of $.3105 \pm .0001$. The value for the critical point is in serious disagreement with the present high temperature estimate of $u_c = .53282 \pm .00005$. Padé analysis of the zero field ferromagnetic susceptibility series and the zero field specific heat series gives $\gamma' \simeq 1.25$ and $\alpha' = .19 \pm .01$ respectively.

ACKNOWLEDGEMENTS

I am very grateful to my supervisor, Dr. D.D. Betts, for his encouragement and helpful advice during the course of this research and also for his continuing financial support.

I would like to thank Dr. M.F. Sykes for his many helpful discussions during my visit to King's College this year and for showing me his unpublished results. I would also like to thank Dr. B. Heap for allowing me to use his computer generated list of eight point graphs.

I wish to express my sincere appreciation to my wife, Sharon, for her encouragement and for typing the thesis.

Finally, I would like to thank the University of Alberta Computing Centre for their cooperation.

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CHAPTER I

INTRODUCTION

This thesis describes a systematic method of generating low temperature exact series expansions for the Ising Model. The method is applicable to loose packed lattices (i.e. lattices which can be subdivided into two identical sublattices such that no two sites on one sublattice are nearest neighbours of each other). Previous attempts by various workers in this field have failed to produce sufficiently long series to determine the precise behaviour of the model in the region just below the critical temperature. The most widely studied thermodynamic quantities are the zero field susceptibility, magnetization and specific heat with critical exponents γ' , β and α' respectively in this region. So far the existing low temperature series expansions have not been able to yield answers to many of the important questions that have arisen concerning the Ising model and the validity of scaling laws. This research was undertaken with the expectation that the additional terms would enable the evaluation of the critical exponents to much more precision, hopefully as precise as the exponents above the critical temperature are known. It is important to have accurate values of the model exponents not only for comparison with experimental values but also to test theories of critical phenomena, especially the promising scaling

hypothesis of Kadanoff (1967), Widom (1965) and others.

The method was applied only to the B.C.C. (body-centred cubic) lattice rather than to all the loose packed lattices for several reasons. First, the qualitative features of the three dimensional Ising model are not expected to vary among different loose packed lattices. However, they do depend on dimensionality. With this in mind it was felt that a concentrated effort to produce one long series would be of more immediate benefit than to produce a variety of shorter ones containing less information. The B.C.C. lattice was chosen because it is the loose packed lattice with the highest coordination number. It was anticipated that convergence in the series would occur sooner for a lattice with a higher coordination number since there are more graphs contributing to a given term and secondly, the method used here has more advantage when applied to a high coordination lattice.

Every attempt has been made to ensure that the final results are correct. Calculations such as the one described here involve large numbers of graphs and in handling so much data there arise many opportunities to make numerical errors. To minimize chance of error every step in the calculation was done by the University of Alberta I.B.M. 360/67 computer and all programs were carefully tested before production runs.

The techniques developed in this research have been useful for application to other problems. In particular the programming of the shadow-lattice method has been applied to the low temperature properties of the H_2O_2 lattice model with Ising interactions (J.A. Leu, 1969) and has been modified for application to the low temperature series expansions of the diamond and F.C.C. lattices using a very sophisticated technique developed by Sykes (1969). The computerized method of determining graph isomorphism between labelled graphs and the method of counting lattice constants of disconnected graphs has been also applied to the XY model (Betts, Elliott and Lee, 1969a, 1969b).

The content of the thesis is as follows. In Chapter II the Ising model and its applicability to different physical systems is discussed. Chapter III introduces all those concepts of graph theory which are used extensively in the remainder of the thesis. Chapter IV presents the basic formalism of the shadow lattice method due to Sykes, Essam and Gaunt (1965). Chapter V discusses in detail a method of finding the required graphs and calculating their respective generating functions. Chapter VI quotes the series expansions with the additional twelve terms. Chapter VII presents a detailed Padé approximant analysis which is summarized in Chapter VIII.

Computer programs used in the calculations are not listed but information on these is available upon request.

CHAPTER II

PHASE TRANSITIONS AND THE ISING MODEL

2.1 Critical Phenomena and Exponents

There are many varieties of physical systems that exhibit phase transitions. The change of water to ice, the melting of iron and boiling of liquids are a few common examples. Frequently, two phases existing in equilibrium can be made more and more alike by varying the temperature or some other thermodynamic variable until at a certain 'critical point' the two phases become indistinguishable. The 'critical point' may be further characterized by singularities in one or more of the thermodynamic variables of the system. In many cases the quantitative features of transitions occurring for entirely different physical systems are very similar and the reason for this is that phase transitions are essentially due to 'cooperative phenomena' in which the exact details of the inter-molecular forces of the system do not seem as important as the mechanisms by which the molecules behave collectively. We shall discuss a few common examples.

(a) Liquid-gas system.

A system of a liquid and its vapour in thermal equilibrium is characterized by the temperature T , pressure p , gas and liquid densities ρ_g and ρ_l , and volume V . At a

characteristic pressure p_c the difference between the gas and liquid density decreases as the temperature is increased until ultimately at the critical temperature T_c the densities become equal and two phases become indistinguishable.

We express this behaviour as

$$(\rho_\ell - \rho_g) \rightarrow 0 \quad (T \rightarrow T_c^-) \quad (2.1)$$

A typical coexistence curve is illustrated in Figure 2.1(a). Experimentally the difference in densities as $T \rightarrow T_c^-$ obeys a power law

$$(\rho_\ell - \rho_g) \sim (T_c - T)^\beta \quad (T \rightarrow T_c^-) \quad (2.2)$$

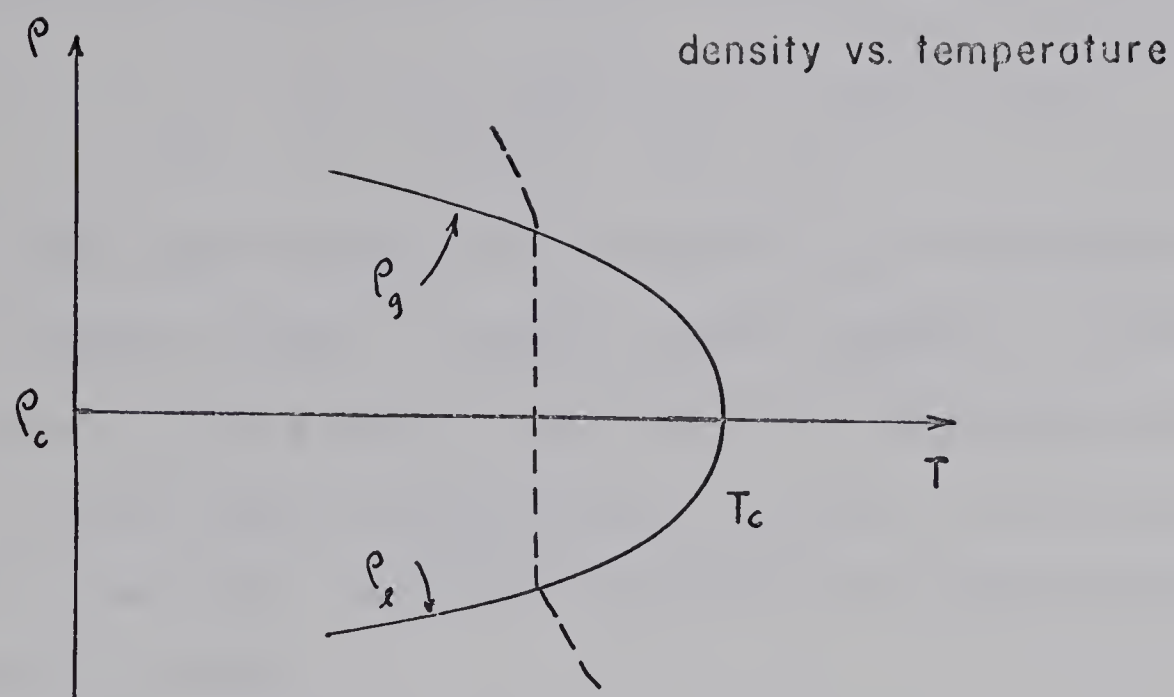
Weinberger and Schneider (1952) studied the critical behaviour of xenon gas and concluded

$$\beta \simeq 0.345 \pm 0.015$$

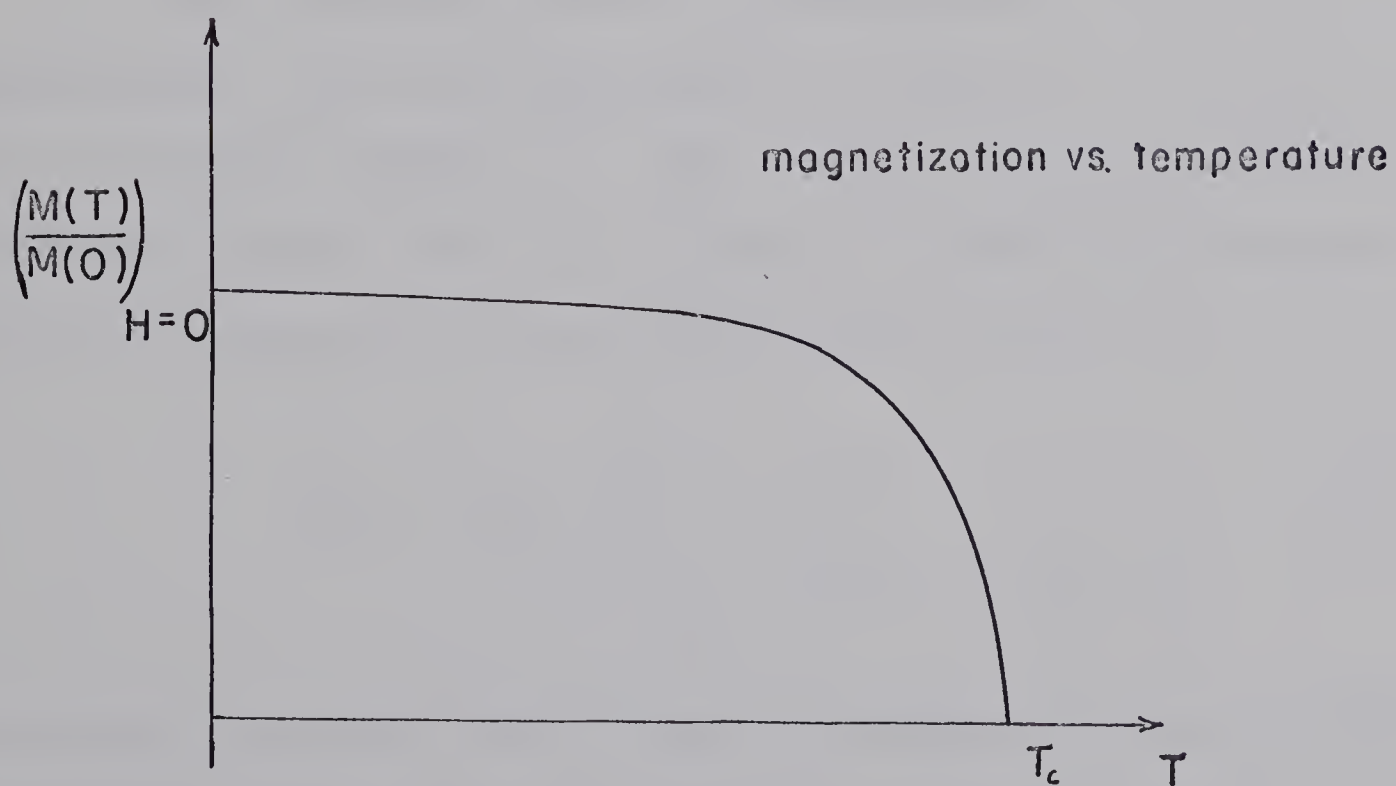
Above T_c the critical point is characterized best by the divergence of the isothermal compressibility defined by

$$K_T = \frac{1}{v} \left(\frac{\partial v}{\partial p} \right)_T = \frac{1}{\rho} \left(\frac{\partial \rho}{\partial p} \right)_T \quad (2.3)$$

where v is the volume per particle. For temperatures near T_c the isothermal compressibility exhibits a sharp maximum near the critical density and as $\rho \rightarrow \rho_c$ the maximum rises until $\rho = \rho_c$ where K_T becomes infinite. This striking anomaly is



(a) FLUID: COEXISTENCE CURVE



(b) FERROMAGNET: SPONTANEOUS MAGNETIZATION

FIGURE 2.1

illustrated in Figure 2.2(a). Experimentally, the divergence of the isothermal compressibility obeys the power law

$$K_T \sim (T - T_c)^{-\gamma} \quad (T \rightarrow T_c^+) \quad (2.4)$$

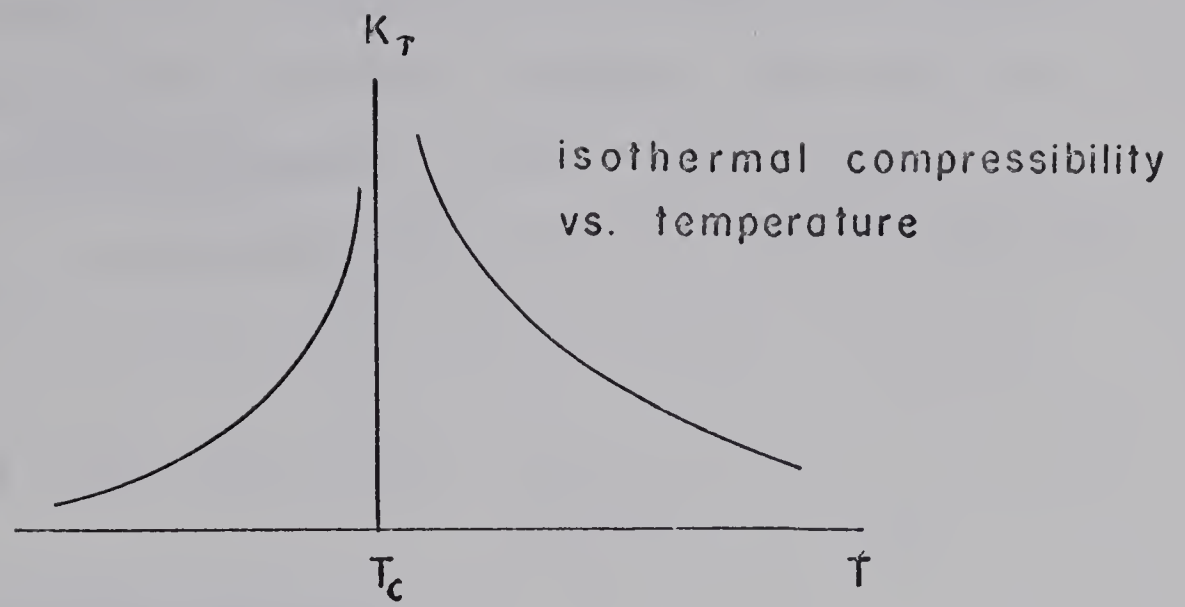
There is much experimental data available on measurements of γ (see Heller, 1967). Typical values suggest γ is about 1.35. Below T_c one similarly defines the compressibility of gas or liquid and correspondingly defines two further exponents γ'_g and γ'_l . Experimentally they are indistinguishable so that we may write

$$\gamma'_g = \gamma'_l = \gamma'$$

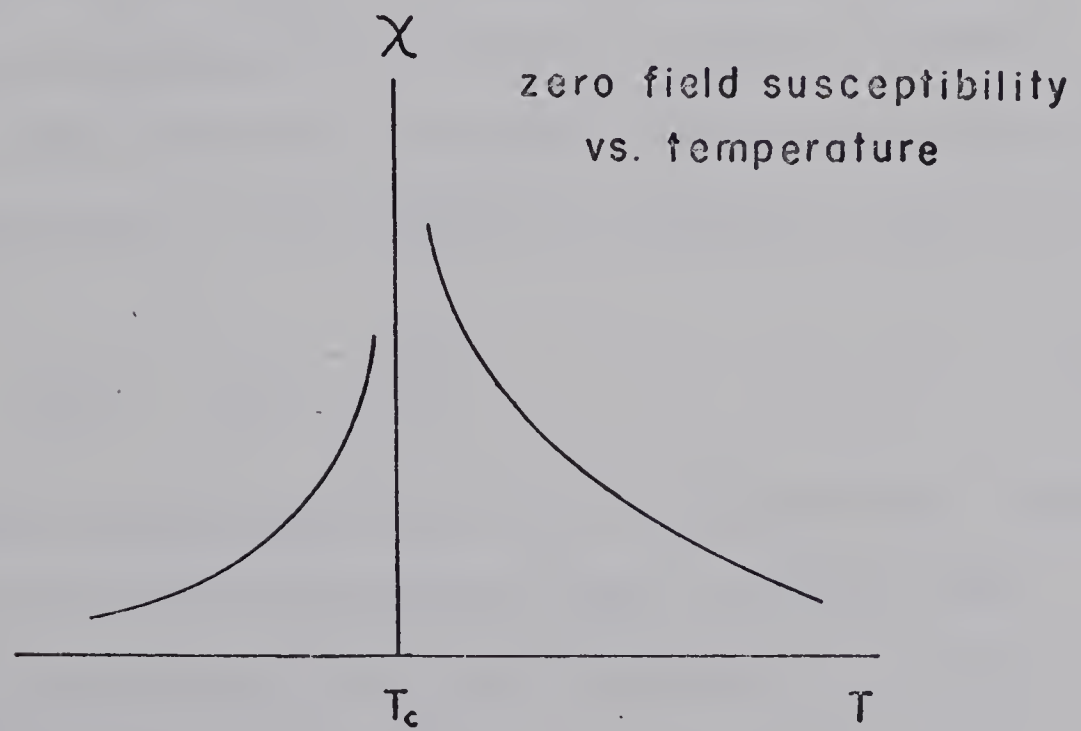
The critical point of various gases is further characterized by a striking thermal anomaly in the specific heat at constant volume C_V . The specific heat is observed to diverge rapidly near T_c in roughly a logarithmic manner. We thus introduce two further exponents defined by

$$\begin{aligned} C_V(\rho = \rho_c) &\sim (T - T_c)^{-\alpha} & (T > T_c) \\ &\sim (T_c - T)^{-\alpha'} & (T < T_c) \end{aligned} \quad (2.5)$$

Experiments on argon and nitrogen by Bagatskii et.al. (1962) and Voronel et.al. (1963, 1964, 1966) indicate α is very close to zero (logarithmic singularity) and α' probably exceeds



(a) FLUID: COMPRESSIBILITY



(b) FERROMAGNET: SUSCEPTIBILITY

FIGURE 2.2

zero by no more than 0.1. Figure 2.3(a) shows the critical isotherm on a density vs. pressure diagram. The critical isotherm has a vertical tangent at the critical point and the shape near T_c is characterized by still another exponent δ defined by

$$p - p_c \sim |\rho - \rho_c|^\delta \quad (2.6)$$

(b) Magnetic Systems.

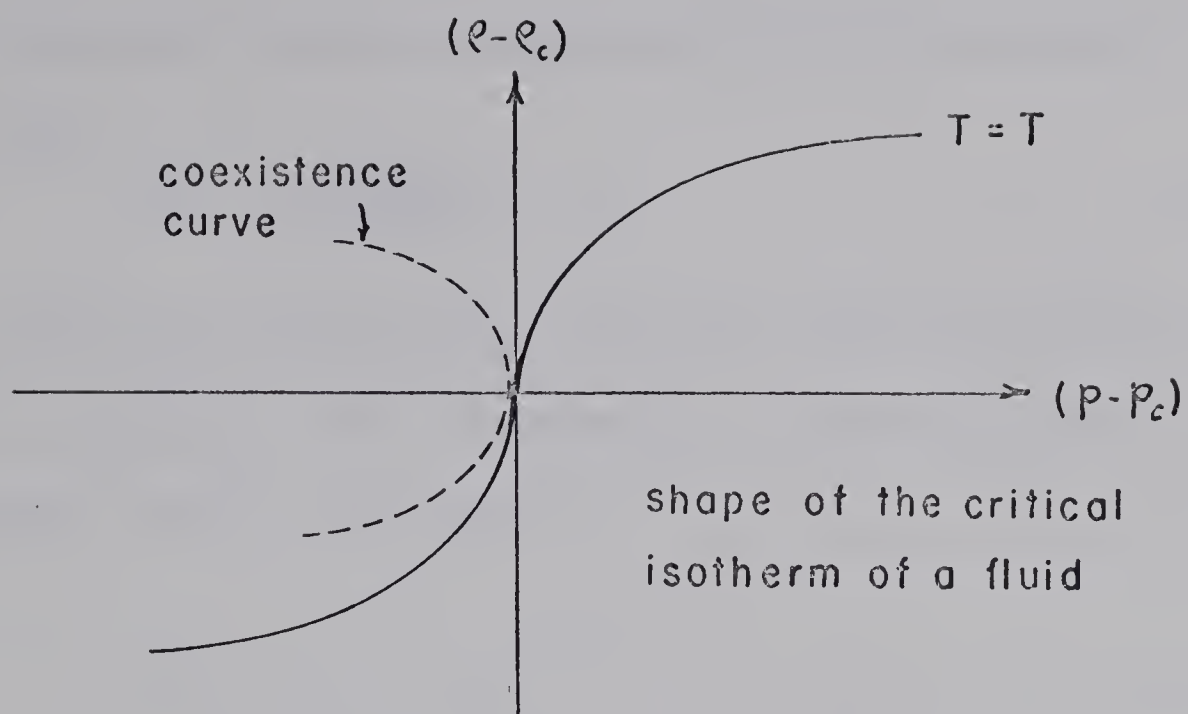
Ferromagnetic crystals are characterized by the existence of a spontaneous magnetization

$$M_o(T) = \lim_{H \rightarrow 0} M(H, T) \quad (2.7)$$

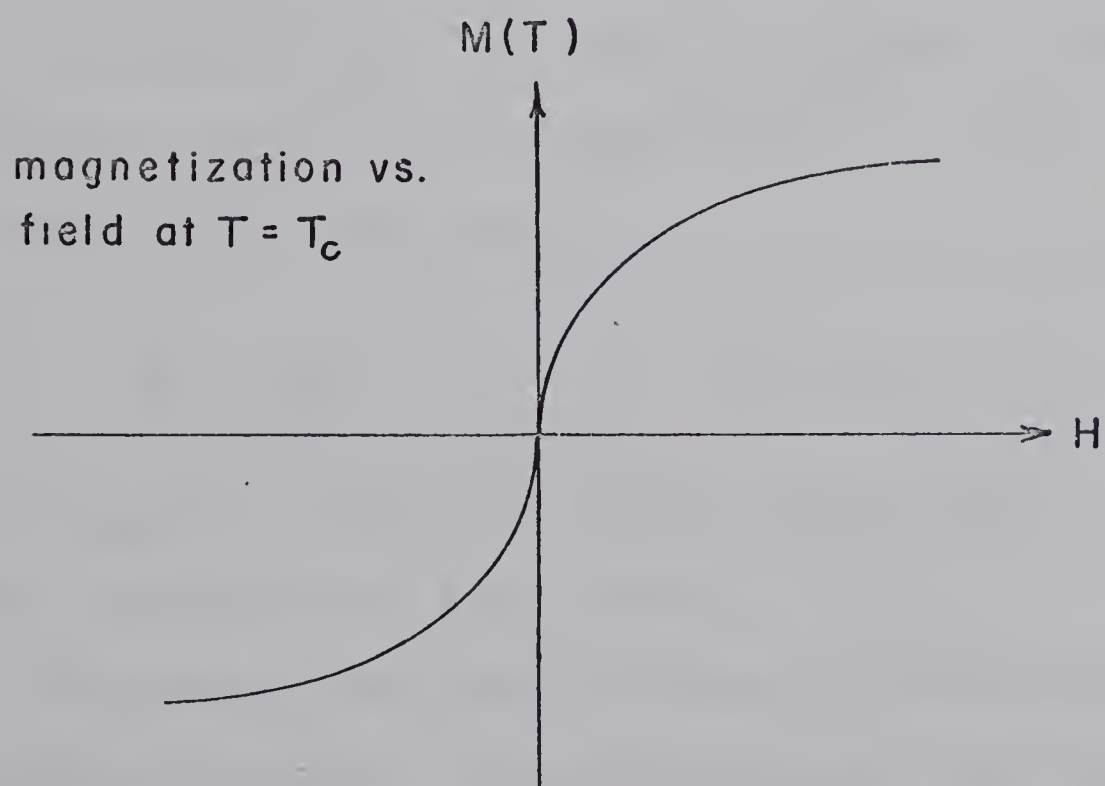
below the critical point T_c . H is the external magnetic field. A typical magnetization curve is shown in Figure 2.1(b) and the rate at which the magnetization decreases to zero is characterized by the magnetic exponent β defined by

$$M_o(T) \sim (T_c - T)^\beta \quad (2.8)$$

The analogy with definition (2.2) for the liquid-gas system becomes evident in the experimental data of Heller and Benedek (1965) on EuS and CrBr_3 who conclude $\beta \simeq 0.330$.



(a) FLUID



(b) FERROMAGNET

FIGURE 2.3

The zero field susceptibility of a ferromagnet is defined by

$$\chi(T) = \left. \frac{\partial M(T, H)}{\partial H} \right|_{H=0} \quad (2.9)$$

As T_c is approached from above and below the susceptibility diverges to infinity. The divergence is characterized by two exponents γ and γ' defined by

$$\begin{aligned} \chi(T) &\sim (T - T_c)^{-\gamma} & (T > T_c) \\ &\sim (T_c - T)^{-\gamma'} & (T < T_c) \end{aligned} \quad (2.10)$$

Typical curves are illustrated in Figure 2.2(b) and the analogy with the isothermal compressibility in Figure 2.2(a) should be noted.

In Figure 2.3(b) the critical magnetic isotherm is illustrated. As $H \rightarrow 0$ the behaviour at T_c of the magnetization is characterized by

$$H \sim |M|^\delta \quad (T = T_c) \quad (2.11)$$

Studies on nickel by Noakes and Arrott (1967) have tentatively concluded $\delta = 4.66 \pm 0.34$.

Furthermore the specific heats of ferromagnets are observed to diverge at the critical point with exponents α and α' analogous the liquid-gas specific heats. Good results have been obtained experimentally by Teaney (1966)

indicating roughly a logarithmic singularity.

(c) Binary Alloys

Binary metallic alloys such as common β brass (CuZn) are characterized by a critical temperature below which each atomic species occupies one of two sublattices preferentially. Above T_c atoms of each species are equally likely to be found on either sublattice.

Further examples are binary liquid mixtures for which the two components mix homogeneously in all proportions above T_c , separating into two phases below T_c ; and the lambda point of liquid helium 4 below which a finite fraction of the liquid is in the superfluid phase but above which superfluidity vanishes.

2.2 The Ising Model

The model of ferromagnetism proposed by Ising (1925) is a highly simplified model but has nevertheless been extremely successful in exhibiting the behaviour of a cooperative system. The spins of a ferromagnet are restricted to sites of a lattice and only interactions between spins which are nearest neighbours on the lattice are considered. The spins are further restricted to being allowed only two possible states, up or down. The Hamiltonian for

such a system is

$$\mathcal{H}_I = -J \sum_{nn} \sigma_i \sigma_j - m H \sum_i \sigma_i \quad (2.12)$$

where σ_i is a spin variable for the i 'th lattice site and can take on the values $\sigma_i = \pm 1$. The first summation is over all nearest neighbour pairs of lattice sites. J is a measure of the ferromagnetic exchange interaction between nearest neighbour spins. The second term in the Hamiltonian represents the interaction of the spins of magnetic moment m with the external field H . In the ground state at $T = 0$, all spins are aligned with the external field. The energy to change a pair of spins from parallel to antiparallel is $2J$. The model is also a model for an antiferromagnet in which spins aligned in opposite directions 'attract' each other. In this case J is replaced by $-J$ in (2.12).

The Ising model is in general a model for any cooperative system in which the interacting subsystems are fixed and have only two possible states and in which only short range forces predominate. Thus it is a model for a binary alloy of two species of atoms A and B, where each lattice site is occupied by either A or B type. It is also a lattice gas model where a volume of gas is considered to be divided up into cells which can be vacant or occupied by one gas molecule.

The model is most useful for insulating ferromagnetic materials about which a complete discussion has been given by Domb and Miedema (1964). For metallic ferromagnets like iron and nickel the model is unrealistic since the magnetic carriers are to some extent free.

Most ferromagnetic materials in nature are better described by the Heisenberg model in which the interactions are of the form

$$\mathcal{H} = -4J \sum_{n,n} \bar{\sigma}_i \bar{\sigma}_j \quad (2.13)$$

Here the $\bar{\sigma}$'s are quantum mechanical spin operators. The Ising Hamiltonian is the anisotropic limit of (2.13) in cases where

$$\sigma_{iz} \gg \sigma_{ix} = \sigma_{iy} = 0 \quad (2.14)$$

There are some substances for which (2.14) is a very good approximation such as the rare earth compound dysprosium aluminum garnet (DAG).

In terms of the Ising model it is convenient at this point to introduce three further exponents η, ν and ν' which characterize the behaviour of the correlation functions of two spins infinitely far apart in the lattice. If we define the correlation between two spins at sites 0 and r by $\langle \sigma_0 \sigma_r \rangle$ where the brackets are used to denote the ensemble average, then on a lattice of dimensionality d , η is defined by

$$\langle \sigma_0 \sigma_r \rangle \sim r^{-d+2-\eta} \quad (r \rightarrow \infty) \quad (2.15)$$

The indices ν and ν' are introduced to characterize the divergence of the 'inverse range of correlation' parameter* $\kappa(T)$ in the following manner

$$\begin{aligned}\kappa(T) &\sim (T - T_c)^{-\nu} & (T > T_c) \\ &\sim (T_c - T)^{-\nu'} & (T < T_c)\end{aligned}\quad (2.16)$$

Experimentally values of ν and ν' are about 0.66.

Recently it has been conjectured by Domb and Hunter (1968) that exponents of higher derivatives of the free energy $F(T)$ differ by a constant Δ or Δ' . Thus the $2n$ 'th derivatives of the free energy above and below T_c are given by

$$\begin{aligned}F_{2n}(T) &\sim (T - T_c)^{-\gamma - (n-1)\Delta} & (T > T_c) \\ &\sim (T_c - T)^{\beta - \frac{1}{2}(n-1)\Delta'} & (T < T_c)\end{aligned}\quad (2.17)$$

If the existence of Δ and Δ' can be rigorously established they would be useful in finding relations among other critical indices.

*For a definition of $\kappa(T)$ in terms of spin-spin correlation functions see Fisher (1969).

2.3 Exact Results for Two Dimensional Ising Model

The problem to be solved for the Ising Hamiltonian (2.12) is the evaluation of the partition function for a given lattice of N sites

$$Z_N(H, T) = \sum_{\sigma_i} \exp(-\beta \mathcal{H}_i) \quad (2.18)$$

where the summation is over all possible configurations of the spin variables. The free energy is given by

$$F(H, T) = kT \ln Z_N(H, T) \quad (2.19)$$

from which all other thermodynamic variables can be calculated.

The evaluation of (2.18) for a two dimensional lattice in zero field was not solved exactly until 1944 when Onsager made the historic breakthrough. Soon afterward the magnetization was calculated exactly (see Yang, 1952).

Using exact series expansions Domb and Sykes (1957a) found $\gamma = 7/4$ and this result was confirmed by Baker (1961) using the Padé approximant method.

A complete summary of indices for the two dimensional Ising model is given in Table 2.1.

TABLE 2.1

Exponent Values for 2 Dimensional Ising Model

$$\alpha = \alpha' = 0 \quad (\log)$$

$$\beta = 1/8$$

$$\gamma = \gamma' = 7/4$$

$$\delta = 15$$

$$\nu = \nu' = 1$$

$$\eta = 1/4$$

$$\Delta = \Delta' = 1 \frac{7}{8}$$

2.4 Critical Indices for the Three Dimensional Ising Model

In three dimensions no exact solution exists but exact series expansions have been produced, yielding most of the known reliable information. The method of series expansions is a graphical method pioneered by Domb (1960). It has been used by various groups to produce long series which can be extrapolated to give estimates of critical temperatures, critical indices and amplitudes. The series expansions fall into two categories, high temperature series (valid for $T > T_c$), and low temperature expansions (valid for $T < T_c$). The two most powerful extrapolation methods are the ratio method introduced by Domb and Sykes (1957b) and the Padé approximant method first used in this field by Baker (1961). In general these methods apply very well to high temperature series but have been less successful on the low temperature expansions. The reasons for this are first, that low temperature series being more difficult to calculate are generally shorter and secondly, the functions they represent are apparently more complicated in structure.

The high temperature susceptibility exponent γ has been estimated to be $1.250 \pm .003$ (Essam and Sykes, 1963). The exact value of $1 \frac{1}{4}$ has been generally accepted. More recently the specific heat index α was concluded to be exactly $\frac{1}{8}$ which ruled out the possibility of a logarithmic divergence (Sykes, Martin and Hunter, 1967; Hunter, 1969).

Below T_c the series have been much less reliable. Convergence seemed slower and for those lattices with coordination number greater than four the coefficients are not all positive. Hence, efforts to obtain long low temperature series lagged behind. In 1965, Sykes, Essam and Gaunt obtained fairly long low temperature series for the more usual two and three dimensional lattices. Using Padé approximants method, Baker and Gaunt (1967) estimated $\gamma' = 1.310 \pm 0.04$, $\beta = 0.312 \pm 0.002$ and $\alpha' = .066 \pm 0.16$ and suggested that $\gamma' = 1 \frac{5}{16}$ rather than $\frac{5}{4}$. Essam and Hunter (1968) by studying magnetic field deviations of the free energy favoured $\gamma' = 1 \frac{5}{16}$ slightly over $\frac{5}{4}$. Recently, Gaunt (1967) using a number of indirect arguments, favours $\gamma' = \frac{5}{4}$ and more recently Guttman and Thompson (1969) using a bilinear transformation were able to transform the series into series of all positive terms. They suggested that $\gamma' = 1 \frac{5}{16}$ from their analysis.

2.5 Rigorous Inequalities

In 1963 Rushbrooke established the relation among certain critical indices

$$\alpha' + 2\beta + \gamma' \geq 2 \quad (2.20)$$

using standard thermodynamic manipulations and valid for

all magnetic systems. If $\alpha' < 0$ as seems to be the case with some systems the inequality (2.20) becomes

$$2\beta + \gamma' \geq 2 \quad (2.21)$$

A further important inequality

$$\alpha' + \beta(1 + \delta) \geq 2 \quad (2.22)$$

was rigorously established by Griffiths (1965) by use of very general convexity properties of the free energy.

Very recently Buckingham and Gunton (1968) proved for the Ising model the inequalities

$$2 - \eta \leq d(\delta - 1)/(\delta + 1) \quad (2.23)$$

$$2 - \eta \leq d\gamma'/(2\beta + \gamma') \leq d\gamma'/(2 - \alpha') \quad (2.24)$$

and more recently Fisher (1969) proved them for ferromagnetic systems in general and in addition the further inequality

$$\gamma \leq (2 - \eta)v \quad (2.25)$$

It has been conjectured by Fisher and Essam (1963) that (2.20) can be replaced by the equality but so far no rigorous proof exists although the conjecture is consistent with experimental and model calculations. Scaling law theory of Kadanoff (1961) and Widom and homogeneity arguments

predict the inequalities (2.20 - 2.25) are in fact equalities and furthermore there is symmetry above and below T_c in that $\gamma = \gamma'$ and $\alpha = \alpha'$. Experimental measurements and Ising model results generally suggest the relations may be exact.

CHAPTER III

CONCEPTS OF LINEAR GRAPHS and THEIR PERMUTATION GROUPS

In the coming chapters we will be concerned with the derivation of low temperature exact series expansion for the Ising model. Since these series coefficients represent sums of graph weights, it is important to understand fully the properties of the graphs. In this section only those concepts which are necessary to understand the low temperature series expansions are discussed. The main reference in the field is a book by Uhlenbeck and Ford (1962). Sykes, Essam, Heap and Hiley (1966) have discussed the subject from the point of view of the study of cooperative phenomena. We will follow closely the nomenclature of the latter authors where possible, otherwise we introduce our own.

3.1 Linear Graphs and Permutation Groups

A linear graph can be defined as a set of points (or vertices) and edges (or bonds). The edges connect pairs of points. Examples of linear graphs are



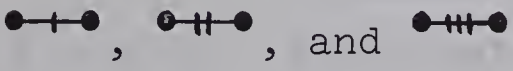


(1)



(2)



(3)

Denote the number of vertices by n and the number of edges by ℓ . For graph (1) $n=3$ and $\ell=2$. This definition can be further generalized by considering edges of different type. For example if we consider edges of three types 1, 2, and 3 by , the the graphs  and  are distinct. In the applications described here the types 1, 2, and 3 will be associated respectively with interactions between first, second and third neighbour sites on a lattice.

In the remainder of this thesis we will refer to linear graphs without edge specification as 'bare' graphs and graphs with the edge specification as 'labeled edge' graphs.


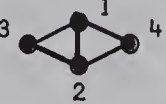



A labeled graph is a graph with the vertices numbered from 1 to n in some order. A connected graph is a graph with a path between all pairs of vertices. Graph (1) is connected but (2) and (3) are disconnected. We further say that graph (3) has four components.

Denote the number of distinct connected bare graphs with n vertices ℓ edges by $\gamma_{n,\ell}$ and the number of distinct bare graphs, including disconnected ones, with n vertices and ℓ edges by $\Pi_{n,\ell}$. Tables of $\Pi_{n,\ell}$ and $\gamma_{n,\ell}$ are given by Uhlenbeck (1962) for up to seven vertices. We have reproduced them in Table 3.1 and also included the values of $\Pi_{8,\ell}$ which were computer generated by Heap (1969).

Assuming the $\Pi_{n,\ell}$ graphs with n vertices and ℓ edges are ordered in some fashion we will denote the k 'th graph of the set by $g_k(n,\ell)$.

A strong subgraph of a graph $g_k(n,\ell)$ is a graph $g_k(n',\ell')$ such that by deleting a set of $n - n'$ vertices from $g_k(n,\ell)$ and all edges connected to these deleted vertices graph $g_k(n',\ell')$ remains.

Whenever the word subgraph is used alone the definition of strong subgraph is implied. As an example

 is a subgraph of  since by removing either vertex 3 or 4 and the two edges connected to it, the graph  remains. Note that in this definition  is not a subgraph of .

The number of distinct ways that the subgraph $g_k(n',\ell')$ can be left by deleting sets of points from $g_k(n,\ell)$ is called the number of strong embeddings of $g_k(n',\ell')$ in $g_k(n,\ell)$ and will be denoted by

$$[g_k'(n',\ell'); g_k(n,\ell)].$$

For example

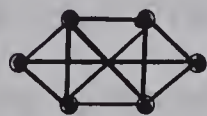
$$[\text{path}_2 ; \text{diamond}_4] = 2 \quad \text{and}$$

$$[\text{path}_2 ; \text{diamond}_4 + \text{tail}_1] = 4$$

A complement graph of a graph $g_k(n, \ell)$ is another graph $\bar{g}_k(n, \bar{\ell})$ obtained from $g_k(n, \ell)$ by deleting all edges and inserting edges where there previously were none. Since the number of pairs of points is $\binom{n}{2}$, $\bar{\ell} = \binom{n}{2} - \ell$. As an example, the complement of $\left\{ \begin{array}{c} \bullet \quad \bullet \\ \diagdown \quad \diagup \\ \bullet \end{array} \right\}$ is the graph $\left\{ \bullet \quad \bullet \quad \bullet \right\}$.

The following observations can be made concerning the properties of graphs and their complements.

- (1) The complement graph of a disconnected graph is connected but the converse is not true.
- (2) $\Pi_{n, \ell} = \Pi_{n, \bar{\ell}}$
- (3) Graphs with many edges are more easily identified by their complements. For example the graph



is topologically equivalent to



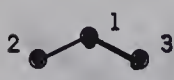

which is not obvious. However, there is no difficulty if they are replaced by their corresponding complement graphs



and



The transformation to complement graphs is extremely useful in generating graph lists. For example in Table 3.1 the $\Pi_{n, \bar{\ell}}$ graphs can easily be obtained from the $\Pi_{n, \ell}$ by computer. Hence for a given number of vertices n , it is only necessary to have a complete list of graphs for $\ell \leq \binom{n}{2}$

An adjacency matrix $M_k(n, \ell)$ of a labeled graph $g_k(n, \ell)$ is an n by n matrix such that the element m_{ij} in the i 'th row and j 'th column is 1 if there is an edge between vertices i and j of the graph and 0 otherwise. For example,  is represented by the matrix $\begin{pmatrix} 0 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{pmatrix}$. Note that the matrix $M_k(n, \ell)$ depends on the labelling of the graph. A labeled edge graph can also be easily represented by an adjacency matrix such that the elements m_{ij} which are equal to 1 in the bare graph matrix are replaced by the edge type so that  is represented by $\begin{pmatrix} 0 & 2 & 3 \\ 2 & 0 & 0 \\ 3 & 0 & 0 \end{pmatrix}$. Note that the matrices $\begin{pmatrix} 0 & 2 & 3 \\ 2 & 0 & 0 \\ 3 & 0 & 0 \end{pmatrix}$ and $\begin{pmatrix} 0 & 3 & 2 \\ 3 & 0 & 0 \\ 2 & 0 & 0 \end{pmatrix}$ represent the same graphs apart from the labelling.

These matrices are said to be isomorphic to each other.

The labeled graphs they represent are also isomorphic to each other. Formally, we say that if there exists a permutation of points that makes one graph identical to the other, then the graphs are isomorphic to each other. This leads to the concept of a permutation group of a graph. The set of permutations of the vertices of a graph that leave the graph invariant form a group. The number of these permutations is the order of the group (also referred to as the symmetry number of the graph). We can also note that the permutation group of a graph and that of its complement graph are isomorphic (i.e. a graph and its complement graph have the same symmetry).

When the types of the edges of a bare graph are specified, its symmetry may be destroyed but its permutation group is then a subgroup of the bare graph point permutation group.

For example the order of the point permutation group of



is 2 but the order of the permutation group of



is 4. We will denote the symmetry number of a graph $g_k(n, \ell)$ by $s_k(n, \ell)$. The degree of the group is the number of components in an element of the group so that for these point permutation groups it is the number of vertices.

For every allowed permutation of the graph vertices $(1, 2, \dots, n)$ we associate an operator P . We can represent this operator by a set of n components

$$P \equiv (p_1, p_2, \dots, p_n)$$

The p_k are the set of integers $1, 2, 3, \dots, n$ in some order so that when P operates on a set of n labeled objects the p_k 'th object is permuted to the k 'th position.


A complete point permutation group of order s is then represented by s elements P^1, P^2, \dots, P^s . To distinguish the components of each element we will use a superscript so that

$$P^k \equiv (p_1^k, p_2^k, \dots, p_s^k). \quad (3.1)$$

We will arbitrarily always choose the identity element to be

$$P^1 \equiv (1, 2, 3, \dots n) \quad (3.2)$$

The following example will clearly illustrate how the elements of a permutation group can be generated from a linear graph.

The graph  is left invariant under the interchange of vertices 2 and 3 or the interchange of vertices 4 and 5.

The operator which permutes points 2 and 3 is represented by the components $(1, 3, 2, 4, 5)$. The other elements are similarly given by $(1, 2, 3, 5, 4)$, $(1, 3, 2, 5, 4)$ and the identity element $(1, 2, 3, 4, 5)$. Hence the order of the group is 4 and the elements can be labeled

$$P^1 = (1, 2, 3, 4, 5)$$

$$P^2 = (1, 3, 2, 4, 5)$$

$$P^3 = (1, 2, 3, 5, 4)$$

$$P^4 = (1, 3, 2, 5, 4)$$

The successive operation of two elements $P^k P^j$ is equivalent to the operation of a third element P^ℓ so that

$$P^\ell = P^k P^j$$

It is easily deduced that the components of P^ℓ are related to the components of P^k and P^j by

$$p_r^\ell = p_s^j \quad (3.3)$$

where

$$s = p_r^k.$$

The effect of permutation operator P on a graph adjacency matrix M is to produce a new matrix M' . We write this as

$$PM = M' \quad (3.4)$$

The elements of M' are related to the elements of M in the following way

$$m_{p_i p_j} = m'_{ij}$$

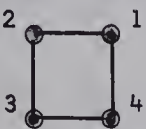
If P is an element of the point permutation group corresponding to the adjacency matrix M , then the matrix $M' = PM = M$ since it is left invariant. In this case we must have

$$m_{ij} = m_{p_i p_j} \quad (3.5)$$

Every permutation of vertices of a graph which leave it invariant corresponds to a permutation of the edges of the graph which connect these vertices. This leads to the concept

of the edge permutation group. For an arbitrary graph we can order the vertex pairs $(2,1)$, $(3,1)$, $(3,2)$, $(4,1)$, $(4,2)$, $(4,3)$... and so on. Each pair is either connected by an edge in the graph or it is not. Hence for a graph with vertices labeled we can uniquely label the edges $1, 2, 3 \dots l$ such that the edges are in the same order as their corresponding vertex pairs.

In a manner analagous to the construction of the point permutation group we can now construct a representation of its corresponding edge permutation group. We will denote the permutation elements of this group by operators Q^1 , $Q^2 \dots Q^S$ and the components of the k 'th element by $q_1^k, q_2^k \dots q_l^k$ where the q_i^k are integers representing some permutation of the labeled edges. To construct this group from the point permutation group it is first useful to form an n by n matrix R such that the elements of R are given by $r_{ij} = 0$ if $m_{ij} = 0$ and if vertices i and j are connected by an edge then $r_{ij} = r_{ji} = k$ where k is the label of the ij edge.

The following example will illustrate. Consider a graph  and its adjacency matrix $M = \begin{pmatrix} 0 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \end{pmatrix}$. One of the

elements of the permutation group is $P = (2, 3, 4, 1)$. The matrix R is given by $\begin{pmatrix} 0 & 1 & 0 & 3 \\ 1 & 0 & 2 & 0 \\ 0 & 2 & 0 & 4 \\ 3 & 0 & 4 & 0 \end{pmatrix}$. If we now construct a

CHAPTER IV

LOW TEMPERATURE SERIES EXPANSION METHOD

In this chapter the formalism of the shadow lattice or generating function method is presented. This method is due to Sykes, Essam and Gaunt (1965) and is presented here with only a slight modification. Applying the method to the B.C.C. lattice, they were able to obtain the partition function series to twenty-three terms. They extended the series later to another five terms but were unable to check the last few terms. We have since obtained agreement on the first twenty-seven terms. The discrepancy on the twenty-eighth term was very small and occurred in only one of the codes. In the next chapter we show how one can fully exploit graph symmetry and use permutation groups to obtain the same series in a much more systematic way. This has enabled us to obtain the series of the B.C.C. lattice to thirty-five terms.

4.1 Low Temperature Series

At absolute zero all spins are aligned in an Ising ferromagnet and for temperatures slightly above zero thermal fluctuations will perturb the ordered state. The probability of a particular perturbation is given by the appropriate Boltzmann factor. In general overturning spins in the lattice

of coordination q increases the free energy. More precisely, the increase in energy of a perturbation is given by

$$\Delta E = 2J(qs - 2r) + 2mHs \quad (4.1)$$

where s is the number of overturned spins and r the number of nearest neighbour pairs in the overturned configuration.

We denote $\exp(-4J/kT)$ by z and $\exp(-2mH/kT)$ by μ . Then the Boltzmann factor corresponding to (4.1) is $z^{qs-2r}\mu^s$. At low temperatures both z and μ are small and we can expand the partition function in a double series in z and μ .

The number of perturbations for the ordered state corresponding to a given Boltzmann factor will be a polynomial in N , the number of sites in the lattice. The configurational free energy is proportional to the logarithm of the partition function and it has been shown by Domb (1960) that this corresponds to taking the terms linear in N in the partition function. Hence, if we denote the number of perturbations (linear in N) of s overturned spins and r nearest neighbour bonds by $[s ; r]$, then the logarithm of the partition function is given by

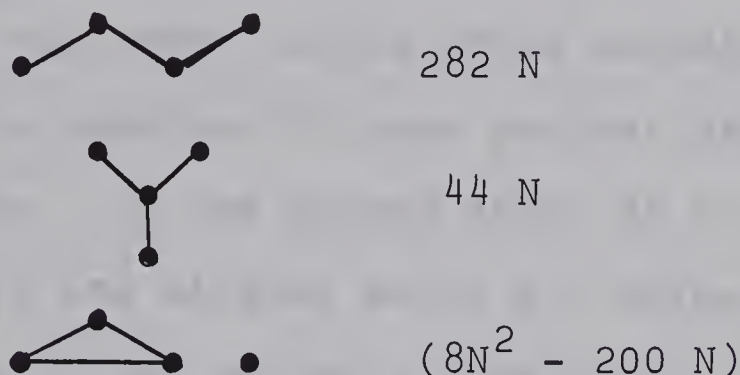
$$\ln Z = \sum_{\text{all } s, r} [s ; r] z^{qs-2r} \mu^s \quad (4.2)$$

Regrouping coefficients of μ^s , (4.2) can be written

$$\ln Z = \sum_s L_s(z) \mu^s \quad (4.3)$$

where $L_s(z)$ are called the low temperature polynomials.

To illustrate, consider the perturbations of four spins and three nearest neighbour bonds on the F.C.C. lattice. $[4;3]$ consists of the following perturbations with their lattice constants:



Hence, the coefficient of z^{42} in $L_4(z)$ is 126.

The low temperature polynomials L_0 to L_9 have been given by Sykes, Essam and Gaunt (1965) for the B.C.C. lattice. They point out that the calculation of complete $L_s(z)$ polynomials is extremely difficult for $s > 9$. However, if one is interested in the series coefficients of successive powers of z (z grouping) then it is not necessary to calculate complete polynomials but only polynomials up to some maximum power of z . The main advantage of calculating complete polynomials is that they provide a check on the calculations. This is because the $\frac{1}{2}s(s-1) + 1$ quantities $[s;0], [s;1], \dots, [s; \frac{1}{2}s(s-1)]$ are not all independent and there are s linear relations between them. These constraints have been described by Domb (1949). The methods used here will not require the calculation of complete low temperature polynomials and hence

will not require the application of these constraints.

4.2 The Low Temperature Enumerative Problem for an Antiferromagnet

For loose packed lattices (i.e. lattices which can be decomposed into two sublattices such that each atom on one sublattice has only atoms on the other sublattice as nearest neighbours) it is possible to have perfect antiferromagnetic ordering of spins. In the ground state at $T = 0$ all spins on one sublattice are aligned while all spins on the other sublattice point in the opposite direction. In the antiferromagnetic case, J is negative and we define $J' = -J$ for this case. Denote the two sublattices by A and B. If the ground state is perturbed by overturning s spins on sublattice A and t spins on sublattice B, the gain in energy is

$$\Delta E = -2[q(s+t) - 2r] J' + 2mH(s-t) \quad (4.4)$$

where we have supposed that the A sublattice is ordered in the direction of the external field. In the absence of an external field the antiferromagnetic partition function is given by

$$\ln Z^a = \sum_{s+t, r} [s+t; r] y^{q(s+t)-2r} \quad (4.5)$$

where

$$y = e^{-2J'/kT}$$

In the presence of an applied field we introduce the Boltzmann factor

$$\mu = e^{-2mH/kT} \quad (4.6)$$

and the partition function is

$$\ln Z^a = \sum_{s,t,r} [s,t;r] y^{q(s+t)-2r} \mu^s \mu^{-t} \quad (4.7)$$

Here the isomorphism between sublattices A and B is destroyed by the external field.

A knowledge of all $[s, t; r]$ constitutes a complete solution to the problem. Sykes, Essam, and Gaunt (1965) have defined generating functions for these quantities and by cleverly exploiting the symmetry of the sublattices have made it possible to generate higher $[s, t; r]$ values which would otherwise be almost impossible to do by the standard method of direct enumeration (See Domb (1960)).

4.3 Partial Generating Functions for $[s, t; r]$

In this section generating functions for $[s, t; r]$ are defined and we show how these generating functions exploit the loose-packed properties of the lattice.

Define a generating function F by

$$F(X,Y,b) = \sum_{s,t,r} [s,t;r] X^s Y^t b^r \quad (4.8)$$

Define partial generating functions by $F_\lambda(X,b)$ such that

$$F(X,Y,b) = \sum_{\lambda} Y^\lambda F_\lambda(X,b) \quad (4.9)$$

Because of the symmetry between the two sublattices (i.e. $F(X,Y,b) = F(Y,X,b)$) a knowledge of the first n partial generating functions enables the values of all $[s, t; r]$ with $s + t \leq 2n + 1$ to be derived.

Assume a configuration of t spins on the B sublattice and denote this by $g_k(t, \ell)$ where k is a subscript labelling the configuration and ℓ is the number of first, second and third neighbour bonds in the configuration. The sublattice configurations then can be enumerated as follows:

• , •—•, •—•—•, •—•—•—•, • •, •—•—•, •—•—•—•, •—•—•—•—•, etc.

Sykes, Essam and Gaunt have shown that this enumeration is equivalent to enumerating all possible ways of stacking cubes together. Two cubes can be joined either face to face (first neighbours), edge to edge (second neighbours), or corner to corner (third neighbours). These arrangements are shown in Figure 4.1.

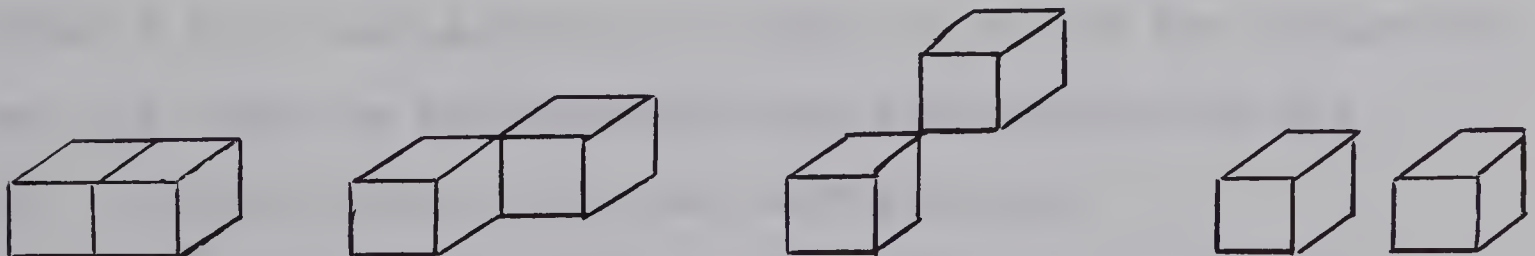


Figure 4.1

Arrangements of Cubes on the S.C. Sublattice

In Figure 4.1 the spins on the B sublattice are located in the centres of the cubes and the A sublattice spins are at the corners of the cubes. Thus the four arrangements in Figure 4.1 correspond to the three connected two spin graphs and the disconnected two spin graph. For each configuration there is an associated code $\alpha_0, \alpha_1, \dots, \alpha_8$ where α_i is the number of spins on the A sublattice which are nearest neighbours of i spins of the configuration. For two spins on one sublattice to have a common nearest neighbour on the other sublattice, the two spins must be either first, second or third nearest neighbours on the sublattice. Since there are exactly N spins on the A sublattice, the α_i must satisfy the relation

$$\alpha_0 = N - \sum_{i=1}^8 \alpha_i \quad (4.10)$$

Furthermore, since each site has exactly eight nearest neighbours on the other sublattice, we have the further constraint


$$8t = \sum_{i=1}^8 i\alpha_i \quad (4.11)$$

Given a spin configuration or graph on one of the sublattices and its code, we can determine the contribution to all $[s, t; r]$ in $F_t(X, b)$ for that configuration.

To determine this contribution we must know in how many ways s sites can be chosen on the A sublattice with a total of r bonds. This is equivalent to an urn model in

which there are α_0 urns with no balls, α_1 urns with one ball, α_2 urns with two balls and so on. We are required to know the number of ways of selecting s urns with a total of r balls and the solution is given in Appendix A. The answer is the coefficient of $X^s b^r$ in

$$[g_k(t, \ell); L] (1+X)^{-N} \prod_{i=1}^8 (1+b^i X)^{\alpha_i} \quad (4.12)$$

The first factor in (4.12) is the lattice constant and the second factor is included to cancel the factor $(1+X)^N$ in $(1+X)^{\alpha_0}$ since terms in powers of N greater than two are not required. As an example the contribution to $F_3(X, b)$ from  is $24(1+X)^{-18}(1+bX)^{13}(1+b^2X)^4(1+b^3X)$. The problem is now reduced to one of enumerating configurations on the S.C. sublattice of the B.C.C. lattice with first, second and third nearest neighbours and determining their corresponding codes and lattice constants. One can immediately see the difficulties arising for graphs with many vertices. In terms of cubes, the problem of stacking them in all possible ways becomes very tedious and subject to error for more than four cubes.

Sykes, Essam and Gaunt (1965) have enumerated all the configurations up to four spins for the B.C.C. lattice problem and thus have obtained the first four partial generating functions. A further difficulty is encountered in calculating the lattice constants of the disconnected

configurations. In the next chapter we show how to obtain the sublattice graphs and their lattice constants in a relatively easy and rigorous manner.

CHAPTER V

GRAPH ENUMERATION METHOD

Expression (4.12) is a generating function for the $[s, t; r]$ in terms of the sublattice configurations and their codes. Considering the problem of first finding the sublattice configurations, there are two obvious approaches. The first is to consider all possible ways of connecting a set of cubes together in the manner outlined in Chapter 4.3. In this case each configuration corresponds to a sublattice graph with a non zero contribution. The second obvious approach would be to begin with a table of 'bare' graphs in order of increasing number of vertices. The table would begin \bullet , $\bullet\text{---}\bullet$, $\bullet\ \bullet$, $\bullet\text{---}\triangle\text{---}\bullet$, $\bullet\text{---}\nabla\text{---}\bullet$, $\bullet\text{---}\bullet\text{---}\bullet$, $\bullet\ \bullet\ \bullet$, etc. For each of these graphs one could then decorate the bonds with labels 1, 2 or 3 corresponding to first, second or third neighbour bonds. The problem of finding all the inequivalent ways of decorating the bonds can be solved by the use of Polya's famous enumeration theorem (see Uhlenbeck and Ford (1962)). The difficulties with the first method have already been pointed out. The second approach fails because one generates many configurations that have zero lattice constants and so do not contribute. In fact, for graphs with many bonds the number of inequivalent ways of decorating them is bounded above by 3^{ℓ} which is enormously large since we wish to consider graphs with $\ell > 20$.

There exists a third approach which combines the advantages of both above mentioned approaches. That is, it is possible to begin with the table of bare graphs and calculate directly the sublattice configurations and their lattice constants. It is the purpose of this section to outline in detail this method. In section 5.5 the problem of calculating the lattice constants of the disconnected graphs is solved by using a computer oriented recursion method. We have calculated all the sublattice configurations that contribute to u^{35} in the partition function expansion. The total number of sublattice configurations involved is 10,674. Table 5.1 gives the number of graphs for up to nine spins. There are no graphs contributing with ten spins.

5.1 Listing and Checking of Bare Graph Lists

Using the tables of Baker, Gilbert, Eve and Rushbrooke (1967) a list of all bare graphs with up to seven vertices was prepared for computer input. The tables in the reference were not complete insofar as only graphs with up to ten edges were supplied. The maximum number of edges for six and seven points graphs is fifteen and twenty one respectively. However, the remaining graphs with more than ten edges were easily generated by computer by complementing the graphs with up to ten edges.

TABLE 5.1

Number of Vertices	Number of Graphs
1	1
2	4
3	13
4	80
5	514
6	3625
7	5042
8	1380
9	15
TOTAL	
	10,674

The list of graphs with eight vertices was supplied by Dr. B. Heap (private communication) and the nine point graphs that contribute were listed by hand. The number of bare graphs is so large that an error such as a missing or duplicated graph would go undetected unless rigid precautions were taken. The following checks were used to insure that there were no errors in the bare graph lists:

1. The number of graphs of n vertices and ℓ edges must agree with $\Pi_{n,\ell}$ given in Table 3.1.

2. For any two graphs $g_k(n,\ell)$ and $g_{k'}(n,\ell)$ we must have

$$[g_k(n,\ell) ; g_{k'}(n,\ell)] = 0 \quad (k \neq k') \quad (5.1)$$

(5.1) is verified for all pairs of k and k' .

3. For a set of $\Pi_{n,\ell}$ distinct graphs of n vertices and ℓ edges, the following constraint must hold:

$$\sum_{i=1}^{\Pi_{n,\ell}} \frac{n!}{s_i(n,\ell)} = \frac{(n/2)!}{\ell!(n/2-\ell)!} \quad (5.2)$$

The first two checks are sufficient to guarantee that there are no omissions or duplications in a set of $\Pi_{n,\ell}$ graphs for any n and ℓ . The third condition is necessary but not sufficient. Its main virtue is that it is easier to employ than (1) and (2). It follows from the fact that the right side of equation (5.2) is the number of distinct labeled graphs with n vertices and ℓ lines. The number of

ways of labelling a particular bare graph $g_k(n, \ell)$ is $\frac{n!}{s_k(n, \ell)}$. Hence, (5.2) must be satisfied for all $\Pi_{n, \ell}$ graphs. (5.2) is also useful in checking the calculation of the symmetry numbers.

5.2 Selection of Bare Graphs for Large s

For $s = 7$ and $s = 8$ not all bare graphs contribute to powers of z up to z^{70} . In general, graphs with many bonds contribute earlier in the series than those with fewer bonds but having the same number of vertices. As the number of bonds decreases, the graphs contribute to higher and higher terms. We develop in this section criteria for determining the cutoff point (i.e. the minimum number of edges in a graph $g_k(n, \ell)$ for a given n so that the graph contributes to coefficients of z^{70} or earlier.

The parameters used as criteria are

$$[\text{triangle} ; g_k(n, \ell)], \quad [\text{square} ; g_k(n, \ell)] \text{ and } [\text{pentagon} ; g_k(n, \ell)].$$

We will show how these are important.

We first examine those properties of a given variable edge graph which determine to which power of z it first contributes. If a graph $g_k(s, \ell)$ has a code $\alpha_0, \alpha_1, \dots, \alpha_8$ it generates a set of coefficients $[s, t; r]$. From the symmetry of s and t in $[s, t; r]$ we only need to generate all $[s, t; r]$

with $t \geq s$. The power of z is given by $8(s + t) - 2r$. The smallest power of z is therefore $16s - 2r$ and we observe that this is a minimum when r is a maximum. If we select P_8 of the t sites from the α_8 and P_7 from the α_7 and so on such that $\sum_{i=1}^8 P_i = s$ then the number of bonds between spins on the A and B sublattices will be $\sum_{i=1}^8 i P_i$. Clearly this will be a maximum if we first choose $P_8 = \alpha_8$ and $P_7 = \alpha_7$ and so on until all t sites are used up. For a tree graph (i.e. a connected graph with no closed loops), all α_k are 0 for $k > 2$ since no spin on the A sublattice can be a neighbour of three sites on the graph simultaneously. If this were not the case then it would imply that three sites on the graph are all neighbours of each other which contradicts the assumption. We can now deduce that the earliest power of z to which a tree graph with s spins contributes to the partition function series is $16s - 2(2s) = 12s$. Therefore, if we wish only graphs that contribute up to the coefficient of z^{70} , we need not include tree graphs with $s > 5$.

The analysis can be further generalized by saying that for α_k to be non zero the bare graph must include the k point complete graph as a subgraph. The closest packed structures of three, four and five spins on the simple cubic sublattice are shown in Figure (5.1). Sites 1, 2 and 3 form a triangular configuration with two first neighbour bonds and one second neighbour bond. For this structure there are

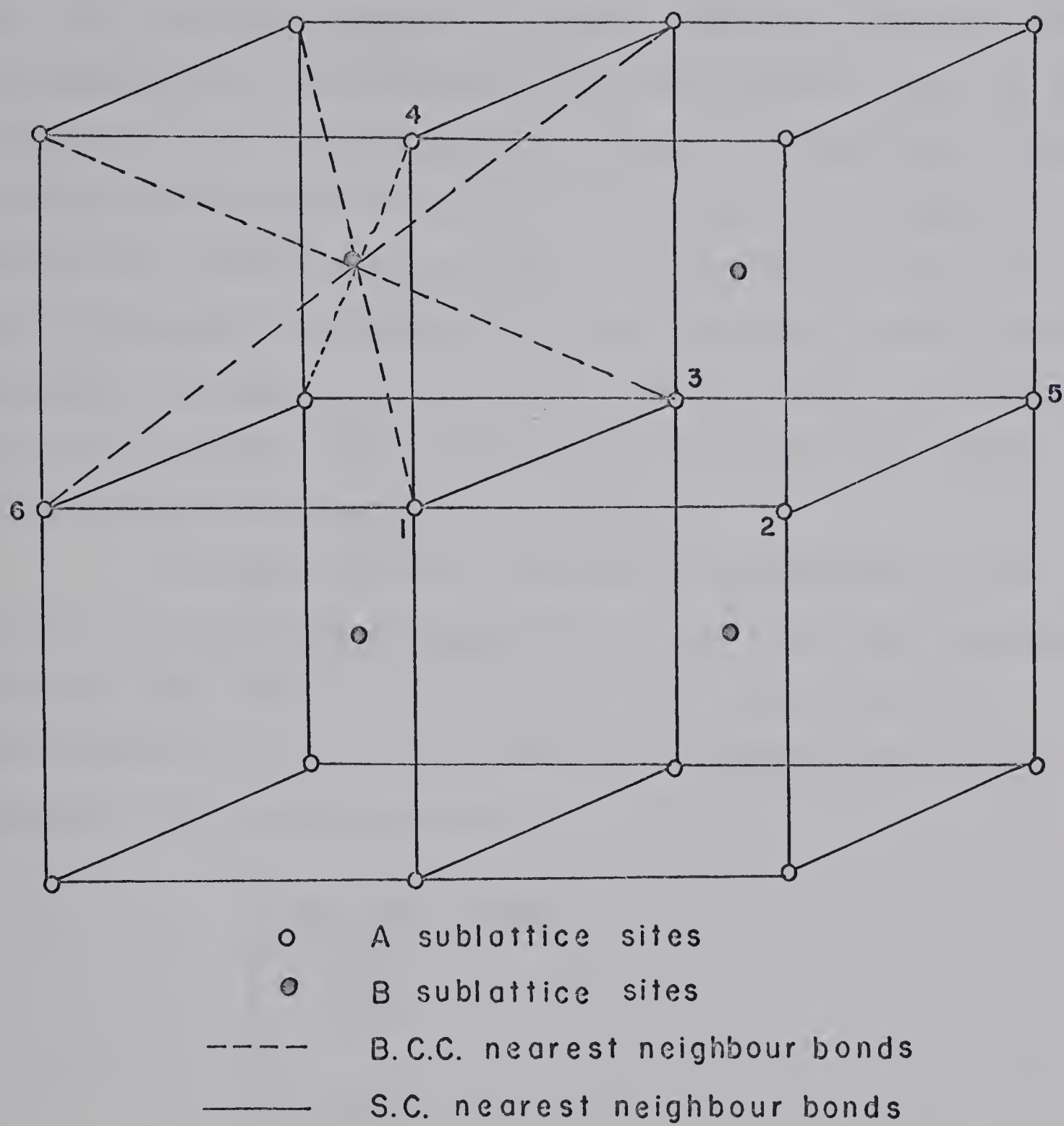


FIGURE 5.1. STRUCTURE OF THE S.C. SUBLATTICE

two sites on the sublattice which are neighbours of all sites so that the contribution to α_3 is 2. There are two favoured arrangements of four spins on the A sublattice. They are the clusters 1, 2, 3 and 4; and 1, 2, 3 and 5. The first cluster contributes one spin to α_4 and three spins to α_3 , while the second one contributes two spins to α_4 and none to α_3 . The most favourable arrangements of five spins are the two configurations in Figure 5.5 of spins 1, 2, 3, 4 and 5; and spins 1, 2, 3, 4 and 6. The corresponding codes for these five spin configurations are easily deduced.

Assuming the most favourable combinations of the above mentioned spin arrangements, we can state the following minimum requirements for seven and eight spin graphs to contribute up to z^{70} in the partition function series expansion. The requirements are:

Seven Spin Graphs

$$\left\{ \begin{array}{l} \left[\begin{array}{c} \bullet \\ \diagup \quad \diagdown \\ \bullet \end{array} ; g_k(7, \ell) \right] = 0 \\ \left[\begin{array}{c} \bullet \\ \diagup \quad \diagdown \\ \bullet \end{array} ; g_k(7, \ell) \right] \geq 4 \end{array} \right. \quad (5.3)$$

OR

$$\left\{ \begin{array}{l} \left[\begin{array}{c} \bullet \\ \diagup \quad \diagdown \\ \bullet \end{array} ; g_k(7, \ell) \right] = 1 \\ \left[\begin{array}{c} \bullet \\ \diagup \quad \diagdown \\ \bullet \end{array} ; g_k(7, \ell) \right] \geq 5 \end{array} \right.$$

OR

$$\left[\begin{array}{c} \bullet \\ \diagup \quad \diagdown \\ \bullet \end{array} ; g_k(7, \ell) \right] \geq 2$$

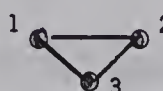

Eight Spin Graphs

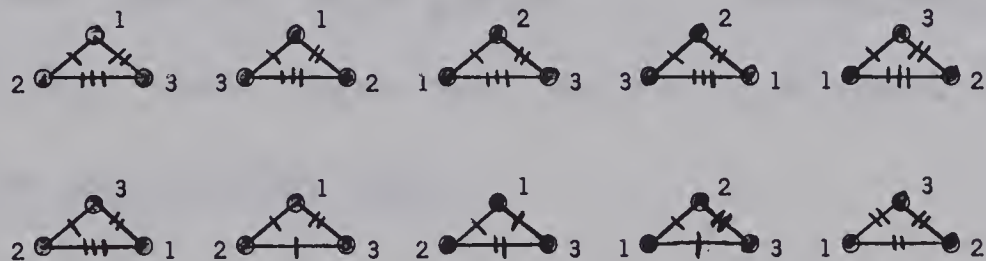
$$\begin{aligned}
 & \left[\begin{array}{c} \text{Graph 1} \end{array} ; g_k(8, \ell) \right] = 0 \\
 & \left[\begin{array}{c} \text{Graph 2} \end{array} ; g_k(8, \ell) \right] \geq 3 \\
 & \text{OR} \\
 & \left[\begin{array}{c} \text{Graph 3} \end{array} ; g_k(8, \ell) \right] = 1 \\
 & \left[\begin{array}{c} \text{Graph 4} \end{array} ; g_k(8, \ell) \right] \geq 6 \\
 & \text{OR} \\
 & \left[\begin{array}{c} \text{Graph 5} \end{array} ; g_k(8, \ell) \right] \geq 2
 \end{aligned} \tag{5.4}$$

5.3 Lattice Constants of Connected Graphs

In sections (5.1) and (5.2) it was shown how the bare graphs have been listed and checked. In this section, it will be shown how these bare graphs are embedded in the simple cubic sublattice of the body-centered cubic lattice to generate codes and lattice constants which eventually are expanded to produce the series coefficients.

We first note that the S.C. shadow lattice of the B.C.C. lattice has six first, twelve second and eight third neighbour bonds. If we consider all first, second and third neighbour bonds as equivalent then each site on the shadow lattice has twenty six nearest neighbours. We will call this lattice the equivalent neighbour lattice.

For each connected bare graph g with n vertices and ℓ edges we first label the vertices from 1 to n and construct its adjacency matrix M , which will have 2ℓ elements equal to 1 and the rest equal to 0. From the adjacency matrix we construct the matrix R as shown in Chapter III. The labeled graph g is then embedded in itself in all possible ways to generate a representation of its point permutation group. For example if g is the graph , then $[\text{triangle}; \text{triangle}] = 6$. Hence, the group is of order 6. The matrices M and R are then used as described in Chapter III to generate a representation of the isomorphic edge permutation group of g . Denoting the equivalent neighbour shadow lattice by L , the number of embeddings of g in L is given by $[g; L]$ but since the lattice is composed of first, second and third neighbour bonds the embeddings of g in L will in general represent different shadow lattice configurations. For example the labeled graph  embedded in L can correspond to any of the following labeled configurations:



In practice one of the graph vertices is chosen as a 'root' vertex and this point is fixed to an origin on the

lattice. To find all possible embeddings of the remaining $n-1$ graph vertices on the neighbouring lattice sites is a difficult computer programming problem. Martin (1962) has described the basic procedure to obtain high temperature lattice constants by computer methods. The modifications of this method to obtain low temperatures lattice constants are relatively minor.

All the configurations can be represented by 'labeled edge' matrices by replacing the elements m_{ij} in M by the values 1, 2 or 3 depending on whether sites i and j are respectively first, second or third nearest neighbours. The problem is to group the isomorphic graphs or matrices together. The total number of graphs in each group will be proportional to the lattice constant. The constant of proportionality will be the symmetry number of the bare graph. The isomorphic problem is readily solved by the application of the bare graph edge permutation group (described in Chapter III) to the above mentioned matrices. If g_k and g_ℓ are two labeled edge graphs with corresponding matrices M_k and M_ℓ then there must exist an element Q of the edge permutation group such that

$$QM_k = M_\ell \quad (5.5)$$

The direct use of (5.5) to sort and group the graphs is impractical because the order of the group may be very large

and the numbers of embeddings to sort may also be excessive. Counts of the order $10^4 \sim 10^5$ are not uncommon for 'tree' like graphs of more than six vertices. The number of sorted groups may also be large. For example, the number of distinct labeled edge chains of ℓ edges when ℓ is even is greater than $(3^\ell)/2$ which can easily become burdensome for our modern electronic computers.

However, the isomorphism problem is simplified further by reducing each graph matrix to a unique representation.* This is done in the following way. We first write down the ℓ non-zero elements of each labeled edge adjacency matrix in the order $(2,1)$, $(3,1)$, $(3,2)$, etc. We then permute these sets by operating with all the elements of the edge permutation group. This operation is expressed as follows:

$$Q^k(b_1, b_2, \dots, b_\ell) = (a_1^k, a_2^k, \dots, a_\ell^k) \quad (5.6)$$

where the b_i are the unpermuted elements of the matrix and the a_i^k are the permuted elements. The a_i^k are integers 1, 2 or 3. We then select the set a_i^k which minimizes the function

$$A^k(g) = \sum_{j=1}^{\ell} a_j^k 3^{j-1} \quad (5.7)$$

The integer 3 is chosen in the right side of (5.7) since this is the smallest integer such that the sum is unique for every inequivalent set of a^k 's. If we denote this minimum


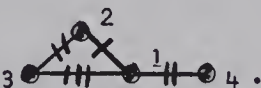
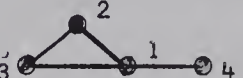
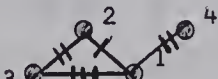

*This is equivalent to a method due to Nagle (1966).

by $A_{\min}(g)$ it is clear that if another graph g' is isomorphic to g then $A_{\min}(g) = A_{\min}(g')$.

The converse is also true. That is, if g and g' are not isomorphic to each other then $A_{\min}(g) \neq A_{\min}(g')$.

The procedure then is straightforward. For each embedding g in the S.C. sublattice we construct its labeled edge matrix $M(g)$. From the non zero elements of $M(g)$ we use the edge permutation group to find $A_{\min}(g)$. It is then a simple matter to sort all the $A_{\min}(g)$. The problem of constructing the code for the partial generating function will be discussed next.

5.4 Code Calculation

The problem of finding the code of a graph g is not difficult and can be done easily on a computer. Consider an embedding of the graph  such as . We first recognize that every embedding of  is isomorphic to  has the same code. This is not true in all problems of this nature (an example is the triangular lattice in which there are two possible codes for the graph ). Since the embeddings are enumerated by computer, the n lattice coordinates $\bar{c}_1, \bar{c}_2, \dots, \bar{c}_n$ of each embedding will be available. Let the eight lattice vectors from a site on sublattice A to its neighbours on sublattice B be $\bar{a}_1, \bar{a}_2, \dots, \bar{a}_8$.

If we then construct the $8n$ vectors

$$\bar{b}_{ij} = \sum_{j=1}^8 \sum_{i=1}^n \bar{c}_i + \bar{a}_j \quad (5.8)$$

and group the ones that are equal we will have α_1 distinct vectors, α_2 pairs of equal vectors, α_3 triplets and so on. As a check we verify that

$$\sum_{i=1}^8 i\alpha_i = 8n \quad (5.9)$$

α_0 is given by

$$\alpha_0 = N - \sum_{i=1}^{\infty} \alpha_i \quad (5.10)$$

The sorting and grouping of the $8n$ vectors of (5.8) can be avoided completely by introducing a discrete function $f(\bar{r})$ defined only when \bar{r} is a lattice vector of the B.C.C. lattice. $f(\bar{r})$ is given explicitly by

$$f(\bar{r}) = \sum_i \sum_j \delta(\bar{r} - \bar{b}_{ij}) \quad (5.11)$$

from which we immediately get the code

$$\alpha_k = \sum_{\bar{r}} \delta(f(\bar{r}) - k) \quad (5.12)$$

where the delta function has value 1 if the argument is zero and is 0 otherwise.

5.5 Lattice Constants of Disconnected Graphs

In this section the enumeration and calculation of the lattice constants for the 812 disconnected graphs that occur in the expansion is discussed. The simplest way to construct the set of disconnected graphs is directly from the connected ones. This is possible since the code of a disconnected graph is given by the sum of the codes of the connected components. It is a straightforward procedure for a computer to construct an adjacency matrix for a disconnected graph simply by forming a block diagonalized n by n matrix, where n is the total number of vertices in the disconnected graph. Each block in the matrix is the adjacency matrix of one of the component graphs. The standard method of calculating lattice constants of disconnected graphs is by the symbolic equation method. This method has been reviewed and studied in detail by Domb (1960). In general the method is as follows. Consider a disconnected graph $g_{ij}^2(n)$ of n vertices consisting of 2 separated components $g_i^1(n_i)$ and $g_j^1(n_j)$ where $n = n_i + n_j$. The superscript is used to denote the number of components in the graph.

$$\text{i.e. } \{g_{ij}^2(n)\} \equiv \{g_i^1(n_i), g_j^1(n_j)\}$$

The lattice constant $[g_{ij}^2(n) ; L]$ is obtained by considering all the overlap graphs in the product

$$[g_i^1(n_i) ; L] [g_j^1(n_j) ; L]$$

$$\text{i.e. } [g_i^1(n_i) ; L] [g_j^1(n_j) ; L] =$$

$$c_0 [g_{ij}^2(n) ; L] + \sum_k c_k [g_k^1(n_k) ; L] \quad (5.13)$$

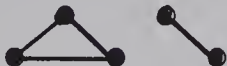
where the summation is over all possible overlap graphs $g_k^1(n_k)$ of g_i and g_j . The overlap graphs of g_i and g_j are graphs in which g_i and g_j can be simultaneously embedded such that all vertices of the overlap graph are occupied by vertices of g_i or g_j or both g_i and g_j . Hence, we must have $n_k \leq n$. The coefficients c_0, c_1, c_2 , etc. are the weights associated with the graphs $g_{ij}^2(n), g_1^1(n_1), g_2^1(n_2)$, etc. As an example, if $g^2(5) =$  some of the possible overlap graphs and their respective weights are listed in

Table 5.2

The weights c_k can be defined as the number of ways the separated components $g_i^1(n_i)$ and $g_j^1(n_j)$ can be simultaneously embedded in $g_k^1(n_k)$ such that all n_k vertices of $g_k^1(n_k)$ are overlapped.

The term on the left side of (5.13) is proportional to N^2 and can be omitted. Solving for the lattice constant of the disconnected graph we get

$$[g_{ij}^2(n) ; L] = - \frac{1}{c_0} \sum_k c_k [g_k^1(n_k) ; L] \quad (5.14)$$

We can write the weights c_k as embedding constants in square brackets as follows

$$c_k = [g_i^1(n_i), g_j^1(n_j) ; g_k^1(n_k)] \quad (5.15)$$

Generalizing to graphs of $p + 1$ components (5.14) is written as

$$[g_{i,j,k,---r}^{p+1}(n) ; L] = - \frac{1}{c_o} \sum_S [g_i^1(n_i), g_j^1(n_j), --- g_r^1(n_r) ; g_S^{p'}(n_S)] [g_S^{p'}(n_S) ; L] \quad (5.16)$$

where the summation is over all graphs $g_S^{p'}(n_S)$ with $p' \leq p$ and $n_S \leq n$.

It should be noted that if a disconnected graph contributes to some power of z in the partition function series then all the possible subgraphs that occur in the right side of (5.16) must occur at some stage no later in the series. Hence, all the graphs will be available and one can use this equation to obtain successively lattice constants of the 2 component graphs, then the 3 component graphs and so on until all lattice constants are obtained.

Equation (5.16) has proven useful for graphs in high temperature expansions as well. In this case the low temperature lattice constants are replaced by high temperature lattice constants (denoted by round brackets).

$$\text{i.e. } [g ; L] \rightarrow (g ; L)$$

CHAPTER VI

SERIES EXPANSIONS

The 10,674 codes listed in Appendix B were expanded by computer and the terms were summed. The final low temperature polynomials and series expansions to order 23 are in exact agreement with those given by Sykes, Essam and Gaunt (1965). The low temperature polynomials L(10) to L(19) are incomplete since only coefficients to order 35 have been calculated. These polynomials enable the free energy expansion to be calculated in powers of u (u grouping). We have not attempted to regroup the terms in an expansion in μ (μ grouping). The reduced configurational energy $U(u)$ and specific heat at constant field C_H are defined by

$$U(u) = 4u \frac{\partial}{\partial u} \ln Z(u) \quad (6.1)$$

$$\frac{C_H(u)}{R(\ln u)^2} = \frac{u}{4} \frac{\partial}{\partial u} U(u) \quad (6.2)$$

where $R = k/J$. The reduced spontaneous magnetization is given by

$$I(u) = 1 - 2\mu \frac{\partial}{\partial \mu} \ln Z(u, \mu) \Big|_{\mu=1} \quad (6.3)$$

and the zero field ferromagnetic reduced susceptibility is given by

$$\chi(u) = \left(2\mu \frac{\partial}{\partial \mu}\right)^2 \ln Z(u, \mu) \Big|_{\mu=1} \quad (6.4)$$

For the antiferromagnetic problem the series are given in the same form as given by Sykes, Essam and Gaunt. From symmetry considerations, coefficients in $\ln Z^a$ of $y^k \mu^n$ and $y^k \mu^{-n}$ are equal. Hence we define

$$\theta_n = \mu^n + \mu^{-n} \quad (6.5)$$

and give the expansions of $\ln Z^a$ in powers of y and θ in Equation 6.17. The reduced antiferromagnetic zero field susceptibility is given by

$$\chi^a(y) = \left(2\mu \frac{\partial}{\partial \mu}\right)^2 \ln Z(y, \mu) \Big|_{\mu=1} \quad (6.6)$$

These series and low temperature polynomials are given in the remainder of this chapter.

Low Temperature Ferromagnetic Polynomials

$$L_s(u) = \sum [s ; r] u^{4s - r} \quad (6.7)$$

$$L_1(u) = u^4$$

$$L_2(u) = 4u^7 - 4.5u^8$$

$$L_3(u) = 28u^{10} - 64u^{11} + 36\frac{1}{3}u^{12}$$

$$L_4(u) = 12u^{12} + 204u^{13} - 798u^{14} + 948u^{15} - 366\frac{1}{4}u^{16}$$

$$L_5(u) = 12u^{14} + 216u^{15} + 1262u^{16} - 9072u^{17} + 17592u^{18} - 14184u^{19} + 4174.2u^{20}$$

$$L_6(u) = 27u^{16} + 312u^{17} + 2368u^{18} + 4312u^{19} - 92992u^{20} + 275021\frac{1}{3}u^{21} - 353640u^{22} + 216036u^{23} - 51444.5u^{24}$$

$$L_7(u) = 72u^{18} + 704u^{19} + 4404u^{20} + 17616u^{21} - 36348u^{22} - 833064u^{23} + 3795726u^{24} - 7072736u^{25} + 6798900u^{26} - 3344712u^{27} + 669438\frac{1}{7}u^{28}$$

$$L_8(u) = 4u^{19} + 198u^{20} + 2016u^{21} + 10300u^{22} + 41352u^{23} + 55536u^{24} - 989076u^{25} - 6007194u^{26} + 46866408u^{27} - 122039509u^{28} + 166096620u^{29} - 127471458u^{30} + 52501716u^{31} - 9066913\frac{1}{8}u^{32}$$

$$L_9(u) = 24u^{21} + 692u^{22} + 5816u^{23} + 30714u^{24} + 99648u^{25} + 226692u^{26} - 887688u^{27} - 13103579u^{28} - 24522136u^{29} + 514861877\frac{1}{3}u^{30} - 1874111776u^{31} + 3435605052u^{32} - 3684304933\frac{1}{3}u^{33} + 2353070344u^{34} - 833603008u^{35} + \dots$$

$$L_{10}(u) = 156u^{23} + 2418u^{24} + 19568u^{25} + 89832u^{26} + 312984u^{27} + 534960u^{28} - 582528u^{29} - 2152480u^{30} - 122555960u^{31} + 184704162u^{32} + 4891550184u^{33} - 25940728064u^{34} + 62669293900.8u^{35} + \dots$$

$$L_{11}(u) = 12u^{24} + 800u^{25} + 9720u^{26} + 65112u^{27} + 302497u^{28} + 897848u^{29} + 1976484u^{30} - 2366032u^{31} - 34701994u^{32} - 284193600u^{33} - 704476488u^{34} + 6025344368u^{35} + \dots$$

$$L_{12}(u) = 168u^{26} + 3924u^{27} + 39762u^{28} + 236032u^{29} + 986272u^{30} + 3060204u^{31} + 5103936.5u^{32} - 632316u^{33} - 112514968u^{34} - 555976916u^{35} + \dots$$

$$L_{13}(u) = 24u^{27} + 1327u^{28} + 19680u^{29} + 163032u^{30} + 885328u^{31} + 3397820u^{32} + 9736440u^{33} + 18376104u^{34} - 15867184u^{35} + \dots$$

$$L_{14}(u) = 14u^{2^8} + 300u^{2^9} + 9060u^{3^0} + 96800u^{3^1} + 683269u^{3^2} \\ + 3360360u^{3^3} + 12218796u^{3^4} + 32724108u^{3^5} + \dots$$

$$L_{15}(u) = u^{2^8} + 144u^{3^0} + 3536u^{3^1} + 52396u^{3^2} + 480816u^{3^3} + 2850824u^{3^4} \\ + 12943160u^{3^5} + \dots$$

$$L_{16}(u) = 12u^{3^0} + 32u^{3^1} + 1551.5u^{3^2} + 26724u^{3^3} + 293104u^{3^4} \\ + 2211380u^{3^5} + \dots$$

$$L_{17}(u) = 114u^{3^2} + 624u^{3^3} + 14016u^{3^4} + 181504u^{3^5} + \dots$$

$$L_{18}(u) = 24u^{3^3} + 900u^{3^4} + 7148u^{3^5} + \dots$$

$$L_{19}(u) = 432u^{3^5} + \dots$$

Zero Field Partition Function

$$\ln Z(u) = \sum_{s=1}^{\infty} L_s(u) = \sum a_n u^n \quad (6.8)$$

<u>n</u>	<u>a_n</u>
0	0
1	0
2	0
3	0
4	1
5	0
6	0
7	4
8	-4 1/2
9	0
10	28
11	-64
12	48 1/3
13	204
14	-786
15	1 164
16	922 3/4
17	-8 760
18	20 032
19	-9 164
20	-84 215 4/5
21	294 677 1/3
22	-378 996
23	-569 704
24	3 832 961 1/2
25	-7 941 796
26	1 118 118
27	43 016 052
28	-133 595 088 6/7
29	142 145 816
30	396 000 603 1/3
31	-1 942 486 152
32	3 585 779 402
33	936 024 034 2/3
34	-24 370 892 156
35	67 337 242 332 4/5

Reduced Configurational Energy

$$U(u) = 4u \frac{d}{du} \ln Z(u) = \sum_n a_n u^n \quad (6.9)$$

<u>n</u>	<u>a_n</u>
0	0
1	0
2	0
3	0
4	16
5	0
6	0
7	112
8	-144
9	0
10	1 120
11	-2 816
12	2 320
13	10 608
14	-44 016
15	69 840
16	59 056
17	-595 680
18	1 442 304
19	-696 464
20	-6 737 264
21	24 752 896
22	-33 351 648
23	-52 412 768
24	367 964 304
25	-794 179 600
26	116 284 272
27	4 645 733 616
28	-14 962 649 952
29	16 488 914 656
30	44 280 072 400
31	-240 868 282 848
32	458 979 763 456
33	123 555 172 576
34	-3 314 441 333 216
35	9 427 213 926 592

Specific Heat at Constant Field

$$\frac{C_H(u)}{R(\ln u)^2} = \frac{1}{4} u \frac{d}{du} U(u) = \sum_n a_n u^n \quad (6.10)$$

<u>n</u>	<u>a_n</u>
0	0
1	0
2	0
3	0
4	16
5	0
6	0
7	196
8	-288
9	0
10	2 800
11	-7 744
12	6 960
13	34 476
14	-154 056
15	261 900
16	236 224
17	-2 531 640
18	6 490 368
19	-3 308 204
20	-33 686 320
21	129 952 704
22	-183 434 064
23	-301 373 416
24	2 207 785 824
25	-4 963 622 500
26	755 847 768
27	31 358 701 908
28	-104 738 549 664
29	119 544 631 256
30	332 100 543 000
31	-1 866 729 192 072
32	3 671 838 107 648
33	1 019 330 173 752
34	-28 172 751 332 336
35	82 488 121 857 680

Zero Field Reduced Spontaneous Magnetization

$$I(u) = 1 - 2\mu \frac{\partial}{\partial \mu} \ln Z(u, \mu) \Big|_{\mu=1} \quad (6.11)$$

$$= \sum a_n u^n$$

<u>n</u>	<u>a_n</u>
0	1
1	0
2	0
3	0
4	-2
5	0
6	0
7	-16
8	18
9	0
10	-168
11	384
12	-314
13	-1 632
14	6 264
15	-9 744
16	-10 014
17	86 976
18	-205 344
19	80 176
20	1 009 338
21	-3 579 568
22	4 575 296
23	8 301 024
24	-54 012 882
25	112 640 896
26	-5 164 464
27	-694 845 120
28	2 160 781 086
29	-2 230 434 416
30	-6 869 124 456
31	35 297 875 488
32	-64 858 054 430
33	-25 608 619 344
34	493 742 819 072
35	-1 358 564 369 648

Zero Field Ferromagnetic Reduced Susceptibility

$$\chi(u) = \left(2\mu \frac{\partial}{\partial \mu}\right)^2 \ln Z(u, \mu) \Big|_{\mu=1} \quad (6.12)$$

$$= \sum_n a_n u^n$$

<u>n</u>	<u>a_n</u>
0	0
1	0
2	0
3	0
4	4
5	0
6	0
7	64
8	-72
9	0
10	1 008
11	-2 304
12	2 076
13	13 056
14	-49 872
15	82 272
16	106 648
17	-862 272
18	2 114 304
19	-658 464
20	-12 059 556
21	43 579 680
22	-55 187 360
23	-119 638 464
24	761 695 848
25	-1 598 959 360
26	-91 075 008
27	11 213 610 240
28	-34 972 259 636
29	34 926 603 200
30	127 214 792 496
31	-641 499 054 016
32	1 173 722 160 352
33	634 668 566 688
34	-9 994 786 644 544
35	27 422 716 020 064

Zero Field Antiferromagnetic Reduced Susceptibility

$$\chi^a(y) = \left(2\mu \frac{\partial}{\partial \mu}\right)^2 \ln Z^a(u, y) \Big|_{\mu=1} \quad (6.14)$$

$$= \sum_n a_n y^{2n}$$

<u>n</u>	<u>a_n</u>
0	0
1	0
2	0
3	0
4	4
5	0
6	0
7	0
8	-8
9	0
10	112
11	-256
12	156
13	896
14	-3 536
15	5 472
16	5 400
17	-49 088
18	115 008
19	-47 776
20	-555 492
21	1 976 736
22	-2 563 424
23	-4 446 272
24	29 452 776
25	-61 952 896
26	4 795 392
27	374 024 448
28	-1 173 895 476
29	1 235 572 352
30	3 634 904 496
31	-18 985 474 112
32	35 243 943 744
33	12 436 249 248
34	-262 985 004 480
35	730 774 406 944

Low Temperature Antiferromagnetic Partition Function

$$\begin{aligned}
2 \ln Z^a = & y^8(\theta_1) + y^{14}(8) + y^{16}(-8-.5\theta_1) + y^{20}(28\theta_1) \quad (6.13) \\
& + y^{22}(-64\theta_1) + y^{24}(24+36\theta_1+\frac{1}{3}\theta_3) \\
& + y^{26}(296+56\theta_2) + y^{28}(-1148+12\theta_1-224\theta_2) \\
& + y^{30}(1320+216\theta_1+288\theta_2) + y^{32}(-444+1192\theta_1-117\theta_2+70\theta_3) \\
& \quad - \frac{1}{4}\theta_4) + y^{34}(432-8624\theta_1+96\theta_2-448\theta_3) \\
& + y^{36}(3224+16656\theta_1+756\theta_2+1008\theta_3) \\
& + y^{38}(4456-12544\theta_1+2032\theta_2-936\theta_3+56\theta_4) \\
& + y^{40}(-112700+7948\theta_1-35884\theta_2+630\theta_3-560\theta_4+.2\theta_5) \\
& + y^{42}(332602\frac{2}{3}+16464\theta_1+108720\theta_2+1176\theta_3+2016\theta_4) \\
& + y^{44}(-402840-35824\theta_1-138644\theta_2+140\theta_3-3276\theta_4+28\theta_5) \\
& + y^{46}(295488-733168\theta_1+106776\theta_2-93632\theta_3+3024\theta_4-448\theta_5) \\
& + y^{48}(13637\frac{1}{3}+3388704\theta_1+51\theta_2+435228\theta_3-360\theta_4 \\
& \quad +2520\theta_5-\frac{1}{6}\theta_6) \\
& + y^{50}(-1171896-6119824\theta_1-378784\theta_2-845912\theta_3-4784\theta_4 \\
& \quad -6552\theta_5+8\theta_6) \\
& + y^{52}(-6137236+6109952\theta_1-2683100\theta_2+916288\theta_3 \\
& \quad -165252\theta_4+9072\theta_5-224\theta_6) \\
& + y^{54}(50168184-3575352\theta_1+20925912\theta_2-585144\theta_3 \\
& \quad +1171296\theta_4-6768\theta_5+2016\theta_6) \\
& + y^{56}(-127744158-10745037\theta_1-54289980\theta_2-1379391\theta_3 \\
& \quad -3294524\theta_4-5889\theta_5-8190\theta_6+1\frac{1}{7}\theta_7) \\
& + y^{58}(171516224-17966328\theta_1+74936616\theta_2-5427352\theta_3 \\
& \quad +5038560\theta_4-210864\theta_5+17136\theta_6-64\theta_7)
\end{aligned}$$

(6.13) continued....

$$\begin{aligned}
 & + y^{6^0}(-150750220+428698620\theta_1-67642536\theta_2+86054609\frac{1}{3}\theta_3 \\
 & \quad -4963632\theta_4+2247300\theta_5-19656\theta_6+1008\theta_7) \\
 & + y^{6^2}(-74581408-1550744728\theta_1-28646600\theta_2-315969512\theta_3 \\
 & \quad -963480\theta_4-8868152\theta_5+3576\theta_6-6552\theta_7) \\
 & + y^{6^4}(229718769+2792101278\theta_1+71095755\theta_2+593480258\theta_3 \\
 & \quad -4321477.5\theta_4+18750936\theta_5-207648\theta_6+20916\theta_7-8\frac{1}{8}\theta_8) \\
 & + y^{6^6}(4647278784-3218704584\theta_1+2317354704\theta_2 \\
 & \quad -714467725\frac{1}{3}\theta_3+250104456\theta_4-25073928\theta_5+3206136\theta_6 \\
 & \quad -34416\theta_7+288\theta_8) \\
 & + y^{6^8}(-24905232184+1318319592\theta_1-12273720632\theta_2 \\
 & \quad +336308156\theta_3-1297046648\theta_4+15187156\theta_5 \\
 & \quad -17343584\theta_6+19896\theta_7-3276\theta_8) \\
 & + y^{7^0}(58863300121.6+4446815672\theta_1+29408458456\theta_2 \\
 & \quad +741287584\theta_3+3258505696\theta_4+1052936\theta_5 \\
 & \quad +49628848\theta_6-156920\theta_7+16560\theta_8)
 \end{aligned}$$

CHAPTER VII

SERIES ANALYSIS

7.1 Ratio Method

The ratio method for analysing series expansions has been first used by Domb and Sykes (1957) to estimate critical points and exponents. The method has recently been reviewed by Fisher (1967).

If a function $f(x)$ with power series expansion $f(x) = \sum_{n=0}^{\infty} a_n x^n$ behaves asymptotically below a critical point x_c like

$$f(x) \sim A(x_c - x)^{-(g+1)} \quad (x \leq x_c) \quad (7.1)$$

then it is easily shown that the ratios

$$r_n = \frac{a_n}{a_{n-1}}$$

approach the limit

$$r_n \rightarrow \frac{1}{x_c} \left\{ 1 + \frac{g}{n} \right\} \quad (n \rightarrow \infty) \quad (7.2)$$

so that a plot of r_n against $1/n$ should have a limiting slope of g and a limiting value of $1/x_c$.

In general the series expansion for $f(x)$ exhibits non-physical singularities as well as physical ones. The physical singularity is usually the smallest singular point on the positive real axis. When there are no non-physical

singularities nearer to the origin the ratios are all positive and when the non-physical singularities lie well outside the circle of convergence defined by the physical singularity, then the ratios will converge rapidly. If the dominant singularity lies on the negative real axis the signs of the series coefficients will alternate and when the dominant singularities are complex, the signs will be irregular. For these cases, different techniques must be employed. It should also be mentioned that more complex singularities may arise such as

$$f(x) \sim A(x_c - x)^{-\lambda} |\ln(x_c - x)|^\mu \quad (7.3)$$

If this occurs (7.2) still holds but convergence may be extremely slow.

The ratio method has proved most useful when applied to high temperature Ising series, since in these cases the dominant singularity is on the positive real axis. The low temperature series presented in Chapter VI do not fall into this category, due to the presence of a complex pair of singularities symmetric about the negative real axis and near the origin.

7.2 Series Transformations

It is possible however, in some cases to transform the physical singularity closer to the origin than the complex

singularities. This is accomplished by a bilinear transformation of the form

$$\begin{aligned} x &= \frac{ax'}{1 - bx'} \\ x' &= \frac{x}{a + bx} \end{aligned} \quad (7.4)$$

Guttman and Thompson (1969) applied the bilinear transformation

$$z = e^{-2J/kT} = \frac{.5x}{1 - .5x} \quad (7.5)$$

to the low temperature Ising S.C. series derived by Sykes, Essam and Gaunt (1965). The transformed series seemed to converge up to the physical singularity but the ratios had not settled down with the terms available.

Transformations of branch point singularities to simple poles are accomplished by the so called 'd log' transformation

$$\frac{d}{dx} \ln\left(1 - \frac{x}{x_c}\right)^{-\lambda} = \frac{\lambda}{x_c} \left(1 - \frac{x}{x_c}\right)^{-1} \quad (7.6)$$

With this transformation the critical exponent is calculated from the residue

$$\frac{\lambda}{x_c} = \left(1 - \frac{x}{x_c}\right) \frac{d}{dx} \ln\left(1 - \frac{x}{x_c}\right)^{-\lambda} \quad (7.7)$$

Equation (7.6) can be used as a test of how well series are represented by the form (7.1) by using a ratio analysis of the d log. From (7.2) the ratios should approach the constant value x_c^{-1} .

A further extension of (7.7) is the Rushbrooke method which consists of the the following transformation

$$h(x) = \frac{\frac{d}{dx} \ln \frac{d}{dx} f(x)}{\frac{d}{dx} \ln f(x)} \quad (7.8)$$

If $f(x)$ has the form (7.1) then

$$h(x_c) \sim \frac{g + 2}{g + 1} \quad (7.9)$$

Since (7.9) is independent of x_c we expect that estimates of g from (7.8) will be less sensitive to the choice of x_c used in the analysis.

7.3 Padé Approximant Method

Baker (1961) has shown that Padé approximants can be successfully applied to analytically continue series expansions beyond the circle of convergence. The method was later reviewed by Baker (1965). Following the convention of Fisher (1967) the $[N,M]$ Padé approximant of a function $F(z)$ is a ratio of two polynomials of degree N and M

$$[N,M] = \frac{P_N(z)}{Q_M(z)} = \frac{p_0 + p_1 z + \dots + p_N z^N}{1 + q_1 z + \dots + q_M z^M} \quad (7.10)$$

in which the $N + M + 1$ coefficients $p_0, p_1 \dots p_N, q_1 \dots q_M$ are chosen so that the coefficients of the expansion of $[N,M]$ in

powers of z agree with the coefficients of $F(z)$ up to the order $N + M$. Padé approximant estimates of critical points and exponents of high temperature susceptibility series in two and three dimensions have converged rapidly and given precise agreement with ratio analysis and exact values. As pointed out by Fisher (1967) the low temperature series appear to have a more complicated structure than the high temperature series. Padé analysis results have been poorly convergent and somewhat irregular for series expansions below T_c . Baker and Gaunt (1967) used a Padé analysis to test directly the rigorous inequality

$$\alpha' + 2\beta + \gamma' \geq 2 \quad (7.11)$$

which is implied from the thermodynamic relation (see Rushbrooke (1963))

$$C_H - C_M = T \left(\frac{\partial M}{\partial T} \right)_H^2 \left(\frac{\partial H}{\partial M} \right)_T \quad (7.12)$$

They concluded for three dimensions that

$$2 \leq \alpha' + 2\beta + \gamma' \leq 2.09 \quad (7.13)$$

and that

$$\gamma' = 1.310 \begin{matrix} +0.04 \\ -0.05 \end{matrix}, \quad \beta = 0.312 \begin{matrix} +0.002 \\ 0.005 \end{matrix}$$

and

$$\alpha' = .066 \begin{matrix} +0.16 \\ -0.04 \end{matrix}$$

Further Padé analysis by Essam and Hunter (1968) and Guttman and Thompson (1969) have favoured $\gamma' = 1\frac{5}{16}$ over $1\frac{1}{4}$. However, an analysis by Gaunt (1967) favours $\gamma' = 1\frac{1}{4}$ over $1\frac{5}{16}$.

7.4 Analysis of the Ferromagnetic Magnetization Series

From the magnetization series (6.11) we form the new series

$$I^*(u) = \frac{d}{du} \ln I(u) \quad (7.14)$$

and locate the poles of the denominators of Padé approximants to $I^*(u)$. The physical root is tabulated in Table 7.1. The last row of values should not be weighted heavily as the final term requires further checking. The best estimate is then

$$u_c = .53251 \pm .00003$$

This value is in direct conflict with the best estimate of

$$u_c = .53282 \pm .00006$$

from the high temperature susceptibility series (Sykes (1969)).

At present the reasons for this discrepancy are not known. There are many possibilities. There is possibility of numerical errors in the coefficients for the high or low temperature series. This source of error is highly unlikely since the high temperature series have been thoroughly checked and the low temperature coefficients have been calculated

TABLE 7.1

Estimates of u_c From Padé Approximants To $I^*(u)$

N	[N-1,N+2]	[N-1,N+1]	[N,N+1]	[N,N]	[N+1,N]	[N+1,N-1]	[N+2,N-1]
12	.53395		.53176		.53351		.53341
13		.53221		.53231		.53305	
13	.53242		.53274		.53251		.53224
14		.53251		.53253		.53253	
14	.53252		.53252		.53253		.53252
15		.53251		.53254		.53253	
15	.53249		.53248		.53252		.53250
16		.53250		.53251		.53250	
16	.53249		.53248		.53251		.53250
17		.53255		.53281		.53256	

independently by the author and the King's College group and are in agreement up to the coefficient z^{56} . The additional seven terms calculated by the author appear to yield consistent results with the earlier terms and in this respect are not heavily weighted. The remaining possibilities are that the high temperature ratio analysis has not yet converged or else the low temperature Padé analysis estimates have not settled down. Although it seems unlikely there is possibility that Padé estimates with more terms would tend to the high temperature estimate. The probability of the high temperature susceptibility series estimates of u_c changing significantly with more terms is extremely small since these series have always been reliable and converged well. Therefore, the most likely case is that the low temperature series still require more terms. However, a glance at Table 7.1 will convince the reader that the last ten terms in the series tend to decrease u_c rather than increase it. Therefore, the calculation of a few more terms would probably be futile but the addition of at least ten more would be beyond the limitations of today's computers assuming the method used here. However, ignoring the dilemma, we proceed to estimate β evaluating Padé approximants to

$$(u_c - u) I^*(u)$$

for a range of values for u_c . A short table of estimates from

the diagonal $[N,N]$ Padé approximants is given in Table (7.2). An immediate observation is the apparent convergence of values of β for

$$u_c = .53250$$

and that for $u_c > .53250$ the scatter in estimates increases. We have also calculated estimates of β using the Rushbrooke transformation described in section 7.2. Both methods are summarized in Figure 7.1 in which we plot β vs u_c . As expected the Rushbrooke method gives estimates which are relatively insensitive to u_c . The intersection occurs near $u_c = .53250$ which is consistent with the value of u_c estimated earlier. The best estimate of β is then

$$\beta = .3105 \pm .0001$$

The set of transformations

$$u = \frac{u^*}{1 - bu^*} \quad (7.15)$$

for b roughly in the range $1 < b < 3$ will transform the magnetization series into a series of all terms of the same sign. A choice of b which has a strong linearizing effect on the ratios is the choice $b = 2$. In Table 7.3 we tabulate the ratios $r_n = a_n/a_{n-1}$ of the transformed series

$$\begin{aligned} I^*(u^*) &= \frac{d}{du^*} \ln I(u^*) \\ &= \sum_n a_n (u^*)^n \end{aligned} \quad (7.16)$$

TABLE 7.2

Estimates of β From $[N,N]$ Padé Approximants To (u_c-u) $I^*(u)$

u_c	.53245	.53250	.53252	.53254	.53256	.53258	.53260	.53262
[13,13]	.30986	.31065	.31091	.31129	.31162	.31195	.31228	.31262
[14,14]	.30974	.31056	.31089	.31123	.31157	.31196	.31225	.31260
[15,15]	.30971	.31056	.31089	.31123	.31156	.31189	.31222	.31255
[16,16]	.30973	.31056	.31091	.31128	.31165	.31203	.31242	.31282
[17,17]	.30970	.31056	.31088	.31120	.31151	.31181	.31211	.31240

In columns two and three we give the critical point $(u_c^*)_n$ and critical exponent λ_n obtained from extrapolating the ratios r_n and r_{n-1} . The $d \log$ transformation of (7.16) should produce a critical exponent of -1 . The striking observation from this data is the extremely slow convergence of λ_n to -1 . This same phenomenon is observed with other transformations of the form (7.15) and is strong evidence of the presence of weaker singularities at the critical point. The last estimates of the critical point correspond to $u_c = .53425$ which of course is a very high value. This analysis shows that the convergence is so slow that even with 35 terms the ratios have not settled down to linear behaviour. Table 7.4 lists estimates of u_c^* from Padé approximants to the series defined by (7.16). The table appears to converge at $u_c^* = .257867$ which corresponds to $u_c = .53250$. The fact that Table 7.4 of the transformed series appears to be better convergent than Table 7.1 of the untransformed series is really artificial since a simple calculation shows that an error in u_c^* of Δu_c^* corresponds to an error in u_c of $\Delta u_c - 4\Delta u_c^*$. These results demonstrate also that Padé approximants are fairly insensitive to transformations.

TABLE 7.3

Ratios of $I^*(u^*) = \frac{d}{du} \ln I(u)$ where $u = \frac{u^*}{1-2u^*}$

n	r_n	$(u_c^*)_n$	λ_n
12	3.913		
13	3.907		
14	3.899		
15	3.895		
16	3.893		
17	3.891		
18	3.8885	.25972	-1.17
19	3.8868	.25937	-1.15
20	3.8857	.25875	-1.11
21	3.8849	.25840	-1.08
22	3.8843	.25828	-1.07
23	3.8838	.25821	-1.07
24	3.8834	.25817	-1.06
25	3.8830	.25817	-1.06
26	3.8826	.25822	-1.07
27	3.8822	.25827	-1.07
28	3.8818	.25830	-1.075
29	3.8815	.25833	-1.078
30	3.8811	.25833	-1.079
31	3.8808	.25833	-1.078
32	3.8805	.25832	-1.077
33	3.8802	.25830	-1.075
34	3.8800	.25828	-1.072

TABLE 7.4

Critical Point Estimates From Padé Approximants To $I^*(u^*)$

$$u^* = u/(1+2u)$$

N	[N-1,N+2]	[N-1,N+1]	[N,N+1]	[N,N]	[N+1,N]	[N+1,N-1]	[N+2,N-1]
13		.25779		.25568		.25775	
13	.25760		.257767		.257567		.25758
14		.25770		.257987		.25766	
14	.25788		.257818		.257818		.25785
15		.25795		.257864		.25793	
15	.25790		.257869		.257869		.25788
16		.257865		.257867		.257864	
16	.257871		.257868		.257867		.257870
17		.257882		.257867		.257880	

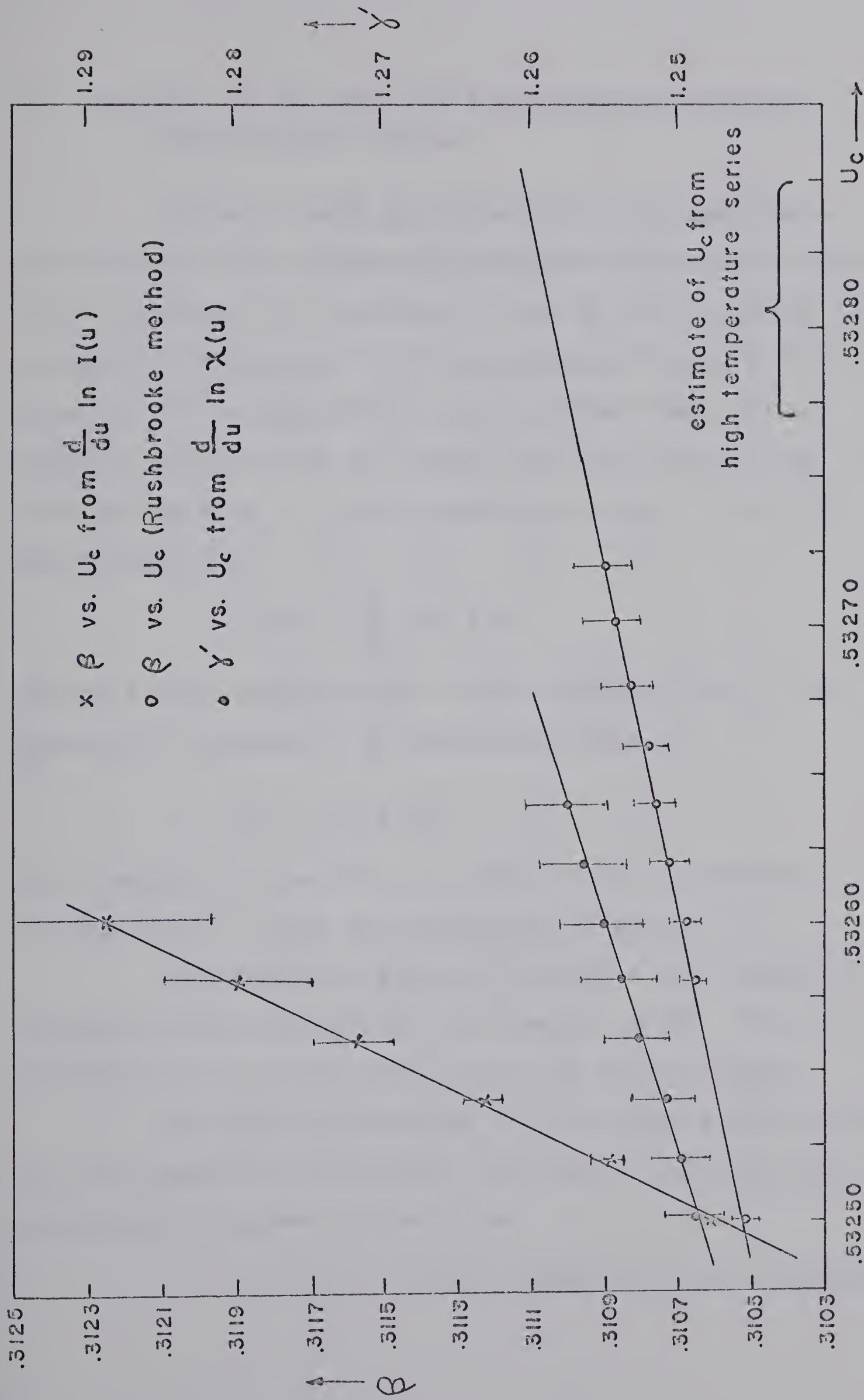


FIGURE 7.1. DEPENDENCE OF β AND γ' ON CHOICE OF U_c

7.5 Analysis of the Zero Field Ferromagnetic Reduced Susceptibility Series

Poles of Padé approximants to the logarithmic derivative of the extended ferromagnetic susceptibility series do not converge to a consistent value as seen in Table 7.5. A possible explanation for this irregularity could be the presence of a singularity on the positive real axis but slightly further from the origin than the physical one. This conflicting pole is indeed observed in some of the $[N,M]$ approximants of

$$\chi^*(u) = \frac{d}{du} \ln \chi(u) \quad (7.17)$$

Ignoring the irregularities in the estimates of u_c if we proceed to estimate γ' by evaluating Pades to

$$(u_c - u) \chi^*(u)$$

For a range of value of u_c we obtain fairly consistent estimates of γ' which are summarized in Table 7.6.

The estimates given in Table 7.6 are averages of estimates from diagonal and off diagonal Padés. Most of the variation in one given table is in the fourth figure.

The Padé approximants to $\chi^*(u)$ give precise estimates for the singularities nearest the origin. Guttman(1969) has estimated the nearest poles to be

$$u_1, u_2 = (-.234 \pm .306i) \pm (0.001 \pm 0.002i)$$

TABLE 7.5

Critical Point Estimates of Padé Approximants To $\chi^*(u)$

N	[N-1,N+2]	[N-1,N+1]	[N,N+1]	[N,N]	[N+1,N]	[N+1,N-1]	[N+2,N-1]
8	.53401		.53117		.54750		.53429
9		.53698		.53387		.53472	
9	.53456		.53301		.53243		.53437
10		.53397		.53352		.53395	
10	.53335		.53374		.53370		.53296
11		.53458		.53361		.53304	
11	.53234		.53336		.53194		.53297
12		.53303		{.531334 .53819}		.53424	
12	.53229		.53335		.53192		.53297
13		.52981		.53369		.53306	

TABLE 7.6

u_c	γ'
.53282	1.27
:	:
.53264	1.258
.53262	1.257
.53260	1.255
.53258	1.254
.53256	1.253
.53254	1.251
.53252	1.250
.53250	1.249

Using Padé approximants of the extended series our estimates are

$$u_1, u_2 = (-.2346 \pm .3048i) \pm (0.0002 \pm 0.0002i)$$

in agreement with Guttman. We have investigated the effect of the transformation (7.15) with $b = 2$ on $\chi(u)$ in an attempt to improve the Padé approximant estimates of u_c and γ' . The results of this analysis are summarized in Table 7.7 (a) and 7.7 (b).

We see from Table 7.7 that the estimates for u_c^* and γ' are more consistent, however, the estimates for γ' are significantly greater than those estimated from the untransformed series. The reasons for this inconsistency are not understood at the present time. It is hoped that further studies on the detailed form of the singularity in the susceptibility will in the future explain the various inconsistencies in the low temperature Padé analysis and also the discrepancy of u_c with the high temperature value.

7.6 Analysis of the Specific Heat Series

The high temperature specific heat series for the F.C.C. lattice has been extensively analysed by Sykes, Martin and Hunter (1967) and Hunter (1969) and it was concluded that $\alpha = 1/8$. The low temperature series have been unable to yield a precise estimate of α' . The extended zero field

TABLE 7.7

(a) Estimates of γ' From Padés of $\chi^*(u^*)$

u_c^*	u_c	γ'
.25786	.53246	1.267 ±0.001
.25787	.53250	1.269
.25788	.53225	1.270
.25789	.53259	1.272
.25790	.53263	1.273

(b) Poles of Padés To $\chi^*(u^*)$

[N,M]	u_c^*	u_c
[11,10]	.25766	.53161
[11,11]	.25764	.53152
[12,11]	.25751	.53097
[12,12]	.25767	.53165
[13,12]	.25802	.53314
[13,13]	.25811	.53353
[14,13]	.25807	.53336
[14,14]	.25808	.53340
[15,14]	.25809	.53344
[15,15]	.25808	.53340

specific heat series of C_H has been analysed by forming Padé approximants to the logarithmic derivative. The values of α' assuming $u_c = .53250$ are given in Table 7.8. We see that even with thirty-five terms in the series the Padé approximants are very slowly convergent and in fact it is not at all clear whether or not the values are converging to a limit. In general it is observed that the higher terms have the effect of decreasing α' so that $\alpha' < .2$ seems a reasonable conclusion based on this evidence. It should be mentioned that for a long time the analysis of the F.C.C. specific heat series above T_c suggested a value of $\alpha \approx 0.2$ (see Domb and Sykes, 1957). A lower bound can be found by the rigorous inequality

$$\begin{aligned} \alpha' &\geq 2 - \gamma' - 2\beta \\ &\geq 0.129 \end{aligned} \tag{7.18}$$

using the values $\beta = .3105$ and $\gamma' = 1.25$. It is hoped that further studies on the existing specific heat series will produce better methods of analysis so that reliable estimates of α' can be obtained directly. The evidence given here is insufficient to refute or support the scaling law result

$$\alpha' = \alpha = 1/8 \tag{7.19}$$

It is also of interest that low temperature studies on a three dimensional lattice of coordination number three

TABLE 7.8

Estimates of α' From Padé Approximants To $(u_c-u) \frac{d}{du} \ln C_H(u)$

N	[N-1,N+2]	[N-1,N+1]	[N,N+1]	[N,N]	[N+1,N]	[N+1,N-1]	[N+2,N-1]
8	.2069		.2055		.1907		.1971
9		.2236		.2009		.1986	
9	.2047		.2030		.2069		.1962
10		.2018		.2023		.2010	
10	.1976		.2057		.2011		.2011
11		.1971		.1991		.2010	
11	.1976		.19223		.2041		.1964
12		.1924		.1924		.1992	
12	.1976		.1924		.2043		.1964
13		.1969		.1986		.2068	

indicate estimates for α' around 0.22 (J.A. Leu, private communication). Therefore, it is probable that the causes of the poor convergence of the B.C.C. lattice low temperature specific heat series are common to all three dimensional lattices.

CHAPTER VIII

CONCLUSIONS

The improvements on the generating function or shadow lattice technique of Sykes, Essam and Gaunt (1965) which has been described here are developments of a somewhat technical nature but nevertheless the ease of applicability of the technique is tremendously increased. Twelve coefficients have been added to the low temperature B.C.C. series expansions, the first four of which have been checked with Sykes (private communication) and are in complete agreement.

Other lattices of high coordination number which would also be well suited to this method are the S.C.(simple cubic) lattice, of which the shadow lattice is the F.C.C. (face centred cubic) lattice with first and second neighbours, and also the higher dimensional cubic lattices which are also loose-packed.

Studies of higher dimensional lattices are of course of great interest in determining the role of dimensionality in critical behaviour of models. Application of the new method to the diamond and F.C.C. lattices is already underway at King's College, University of London and here at Alberta in collaboration with the King's group.

The main purpose of obtaining long series is to get

accurate estimates of the critical parameters, not only to compare the model with experiment but also to test the very promising scaling theory. We had anticipated that an additional twelve coefficients would suffice to check these theories, however the usual methods of extrapolation have led to discrepancies with other calculations.

The magnetization series yielded the most consistent Padé approximant estimates for the critical point and critical index which were $u_c = .53250 \pm .00005$ and $\beta = .3105 \pm .0001$. This estimate for u_c is in disagreement with the high temperature estimate of $u_c = .53282 \pm .00006$. The Rushbrooke method of analysis only confirmed the Padé analysis of the logarithmic derivative of the magnetization series. The estimate for β of .3105 is disturbing because it does not represent any simple fraction as occurs in the exact solutions for two dimensional lattices. Furthermore it refutes the scaling hypothesis which predicts

$$\begin{aligned}\beta &= (1 - \frac{1}{2}(\alpha' + \gamma')) \\ &= 5/16 = .3125\end{aligned}\tag{8.1}$$

since we are assuming $\alpha' = \alpha$ and $\gamma' = \gamma$.

On the other hand the Padé approximant analysis of the ferromagnetic zero field reduced susceptibility series using $u_c = .53250$ indicates a value of γ' which is very close to $5/4$, the high temperature index but again the

uncertainty in u_c must cast doubt on the analysis.

The specific heat series indicates that $\alpha' \approx 0.19$. The effect of the last five terms in the series has been to decrease estimates from $\alpha' \approx .20$. It is difficult to determine what the effect of more terms in the series would have but it is very probable that for this series, convergence of the Padé approximants is so slow that the method is unreliable.

Transformations of the form $u^* = au/(1 + bu)$ have been applied to the magnetization and susceptibility series. The transformed coefficient ratios were not linear enough to extrapolate successfully and Padé approximants of the transformed series gave inconsistent estimates of u_c .

One feels intuitively that because so much information about the lattice goes into the calculation of the series coefficients that some better means should exist to make use of them. At present we are working on ways of using the Padé approximant to untangle the complicated singular structure of these functions.

APPENDIX A

URN MODEL FOR LOW TEMPERATURE GENERATING FUNCTIONS

Given $m+1$ sets of N_i urns $i = 0, 1, 2 \dots m$ and in each of the N_i urns there are i balls, we wish to know the number of ways of selecting a total of t urns with total of r balls.

Solution

Let
$$G_p(x, b) = \sum_{t=0}^{N_p} a_t b^{pt} x^t$$

be the generating functions for the number of ways a_t of selecting t urns with p balls in each. pt is therefore, the total number of balls.

Clearly the number of ways is $\binom{N_p}{t}$ so that

$$G_p(x, b) = \sum_{t=0}^{N_p} \binom{N_p}{t} b^{pt} x^t = (1 + b^p x)^{N_p}$$

If there are N_p urns with p balls in each and N_q urns with q balls in each then the generating function for the number of ways of selecting t urns with r balls total is the coefficient of $b^r x^t$ in

$$G_p(x, b) G_q(x, b) = (1 + b^p x)^{N_p} (1 + b^q x)^{N_q}$$

This is most easily seen by considering a typical term in the expansion. Each term is of the form

$$b^{pi} x^i \binom{N_p}{i} b^{qj} x^j \binom{N_q}{j} \\ = \binom{N_p}{i} \binom{N_q}{j} b^{pi + qj} x^{i + j}$$

which corresponds to the number of ways of selecting i urns from N_p and j urns for N_q with a total of $pi + qj$ balls.

The result is easily generalized to m urns and the solution is the coefficient of $b^r x^t$ in

$$G(x,b) = (1+x)^{N_0} (1+bx)^{N_1} (1+b^2x)^{N_2} \dots (1+b^m x)^{N_m}$$

APPENDIX B

B.C.C. Shadow Lattice Graphs and Codes

All the graphs contributing up to z^{70} in the partition function expansion are listed. The graphs are grouped first according to the number of vertices and the number of separated components. These numbers appear respectively in brackets to the left and separate the groups. In each of these groups the graphs are ordered so that graphs with the largest number of edges appear first. In the first column the graphs are numbered consecutively. In columns two and three are N , the number of vertices and L , the number of edges. In column three we list a vector C of five components c_1, c_2, c_5 where c_i is the number of vertices in the i 'th component. The symmetry number listed next is the symmetry number of the bare graph and not the symmetry number of the shadow lattice graph. The lattice constants are not listed but are given by the count divided by the symmetry number. This avoids any fractions that might possibly appear. The nine numbers that form the codes are from left to right $-\alpha_0, \alpha_1, \alpha_2, \dots, \alpha_8$. The second last column labeled 'Term' is the order (power of z) to which the graph first contributes to the partition function series expansion. The elements in the graph adjacency matrix are listed in the order $(2,1), (3,1), (3,2), (4,1), (4,2),$

(4,3), ---- etc.

The matrix elements 1, 2, 3 correspond to first, second and third neighbour bonds on the simple cubic shadow lattice of the B.C.C. lattice.

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
(1,1)	1	1	0	10000	1	1(8, 8, 0, 0, 0, 0, 0, 0, 0, 0)	14	0
(2,1)	1	2	1	20000	2	6(12, 8, 4, 0, 0, 0, 0, 0, 0, 0)	24	1
	2	2	1	20000	2	12(14,12, 2, 0, 0, 0, 0, 0, 0, 0)	24	2
	3	2	1	20000	2	8(15,14, 1, 0, 0, 0, 0, 0, 0, 0)	26	3
(2,2)	1	2	0	11000	2	-27(16,16, 0, 0, 0, 0, 0, 0, 0, 0)	28	0
(3,1)	1	3	3	30000	6	144(18,13, 4, 1, 0, 0, 0, 0, 0, 0)	34	321
	2	3	3	30000	6	48(19,15, 3, 1, 0, 0, 0, 0, 0, 0)	34	222
	3	3	3	30000	6	72(16,10, 4, 2, 0, 0, 0, 0, 0, 0)	32	211
	4	3	2	30000	2	6(16, 9, 8, 0, 0, 0, 0, 0, 0, 0)	36	110
	5	3	2	30000	2	48(18,12, 6, 0, 0, 0, 0, 0, 0, 0)	36	210
	6	3	2	30000	2	48(19,14, 5, 0, 0, 0, 0, 0, 0, 0)	36	310
	7	3	2	30000	2	84(20,16, 4, 0, 0, 0, 0, 0, 0, 0)	36	220
	8	3	2	30000	2	144(21,18, 3, 0, 0, 0, 0, 0, 0, 0)	36	320
	9	3	2	30000	2	56(22,20, 2, 0, 0, 0, 0, 0, 0, 0)	38	330
(3,2)	1	3	1	21000	2	-216(20,16, 4, 0, 0, 0, 0, 0, 0, 0)	36	100
	2	3	1	21000	2	-504(22,20, 2, 0, 0, 0, 0, 0, 0, 0)	38	200
	3	3	1	21000	2	-368(23,22, 1, 0, 0, 0, 0, 0, 0, 0)	40	300
(3,3)	1	3	0	11100	6	1844(24,24, 0, 0, 0, 0, 0, 0, 0, 0)	42	000
(4,1)	1	4	6	40000	24	576(20,12, 5, 2, 1, 0, 0, 0, 0, 0)	40	312211
	2	4	6	40000	24	72(18, 8, 8, 0, 2, 0, 0, 0, 0, 0)	40	112211
	3	4	6	40000	24	192(20,13, 3, 3, 1, 0, 0, 0, 0, 0)	38	222111
	4	4	6	40000	24	576(21,13, 6, 1, 1, 0, 0, 0, 0, 0)	42	222311
	5	4	6	40000	24	144(21,12, 8, 0, 1, 0, 0, 0, 0, 0)	44	123321
	6	4	6	40000	24	48(23,16, 6, 0, 1, 0, 0, 0, 0, 0)	44	222222
	7	4	5	40000	4	48(20,12, 4, 4, 0, 0, 0, 0, 0, 0)	40	211201
	8	4	5	40000	4	48(20,12, 4, 4, 0, 0, 0, 0, 0, 0)	40	112201
	9	4	5	40000	4	192(22,15, 4, 3, 0, 0, 0, 0, 0, 0)	42	312201
	10	4	5	40000	4	192(22,15, 4, 3, 0, 0, 0, 0, 0, 0)	42	213201
	11	4	5	40000	4	48(22,14, 6, 2, 0, 0, 0, 0, 0, 0)	44	321301
	12	4	5	40000	4	192(23,16, 5, 2, 0, 0, 0, 0, 0, 0)	44	222301
	13	4	5	40000	4	48(22,14, 6, 2, 0, 0, 0, 0, 0, 0)	44	123301
	14	4	5	40000	4	144(24,18, 4, 2, 0, 0, 0, 0, 0, 0)	44	312302
	15	4	5	40000	4	144(24,18, 4, 2, 0, 0, 0, 0, 0, 0)	44	213302
	16	4	5	40000	4	96(24,18, 4, 2, 0, 0, 0, 0, 0, 0)	44	222202
	17	4	4	40000	2	48(20,10, 8, 2, 0, 0, 0, 0, 0, 0)	44	211100
	18	4	4	40000	2	192(22,14, 6, 2, 0, 0, 0, 0, 0, 0)	44	211200
	19	4	4	40000	2	192(23,16, 5, 2, 0, 0, 0, 0, 0, 0)	44	211300
	20	4	4	40000	2	48(22,13, 8, 1, 0, 0, 0, 0, 0, 0)	46	312100
	21	4	4	40000	2	192(24,17, 6, 1, 0, 0, 0, 0, 0, 0)	46	312200
	22	4	4	40000	2	192(25,19, 5, 1, 0, 0, 0, 0, 0, 0)	46	312300
	23	4	4	40000	2	24(22,14, 6, 2, 0, 0, 0, 0, 0, 0)	44	112200
	24	4	4	40000	2	48(23,16, 5, 2, 0, 0, 0, 0, 0, 0)	44	112300
	25	4	4	40000	2	96(24,17, 6, 1, 0, 0, 0, 0, 0, 0)	46	213200
	26	4	4	40000	2	144(25,19, 5, 1, 0, 0, 0, 0, 0, 0)	46	213300
	27	4	4	40000	2	96(22,13, 8, 1, 0, 0, 0, 0, 0, 0)	46	321100
	28	4	4	40000	2	336(24,17, 6, 1, 0, 0, 0, 0, 0, 0)	46	321200
	29	4	4	40000	2	288(25,19, 5, 1, 0, 0, 0, 0, 0, 0)	46	321300
	30	4	4	40000	2	48(23,15, 7, 1, 0, 0, 0, 0, 0, 0)	46	222100
	31	4	4	40000	2	240(25,19, 5, 1, 0, 0, 0, 0, 0, 0)	46	222200
	32	4	4	40000	2	240(26,21, 4, 1, 0, 0, 0, 0, 0, 0)	46	222300
	33	4	4	40000	8	24(24,16, 8, 0, 0, 0, 0, 0, 0, 0)	48	202202
	34	4	4	40000	8	192(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	303202
	35	4	4	40000	8	96(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	203302
	36	4	4	40000	8	96(28,24, 4, 0, 0, 0, 0, 0, 0, 0)	48	303303
	37	4	3	40000	2	6(20, 8,12, 0, 0, 0, 0, 0, 0, 0)	48	110001
	38	4	3	40000	2	48(22,12,10, 0, 0, 0, 0, 0, 0, 0)	48	210001
	39	4	3	40000	2	48(23,14, 9, 0, 0, 0, 0, 0, 0, 0)	48	310001
	40	4	3	40000	2	336(24,16, 8, 0, 0, 0, 0, 0, 0, 0)	48	220001
	41	4	3	40000	2	288(25,18, 7, 0, 0, 0, 0, 0, 0, 0)	48	320001
	42	4	3	40000	2	48(22,12,10, 0, 0, 0, 0, 0, 0, 0)	48	120001
	43	4	3	40000	2	432(25,18, 7, 0, 0, 0, 0, 0, 0, 0)	48	230001
	44	4	3	40000	2	336(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	330001
	45	4	3	40000	2	72(23,14, 9, 0, 0, 0, 0, 0, 0, 0)	48	130001
	46	4	3	40000	2	96(24,16, 8, 0, 0, 0, 0, 0, 0, 0)	48	210002
	47	4	3	40000	2	192(25,18, 7, 0, 0, 0, 0, 0, 0, 0)	48	310002
	48	4	3	40000	2	564(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	220002
	49	4	3	40000	2	912(27,22, 5, 0, 0, 0, 0, 0, 0, 0)	48	320002
	50	4	3	40000	2	912(28,24, 4, 0, 0, 0, 0, 0, 0, 0)	48	330002
	51	4	3	40000	2	600(27,22, 5, 0, 0, 0, 0, 0, 0, 0)	48	230002
	52	4	3	40000	2	96(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	310003
	53	4	3	40000	2	384(28,24, 4, 0, 0, 0, 0, 0, 0, 0)	48	320003
	54	4	3	40000	2	296(29,26, 3, 0, 0, 0, 0, 0, 0, 0)	50	330003
	55	4	3	40000	6	72(24,16, 8, 0, 0, 0, 0, 0, 0, 0)	48	220100
	56	4	3	40000	6	288(25,18, 7, 0, 0, 0, 0, 0, 0, 0)	48	320100
	57	4	3	40000	6	216(25,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	330100
	58	4	3	40000	6	264(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	220200
	59	4	3	40000	6	1008(27,22, 5, 0, 0, 0, 0, 0, 0, 0)	48	320200
	60	4	3	40000	6	1080(28,24, 4, 0, 0, 0, 0, 0, 0, 0)	48	330200
	61	4	3	40000	6	336(29,26, 3, 0, 0, 0, 0, 0, 0, 0)	50	330300
(4,2)	1	4	3	31000	6	-3240(24,18, 4, 2, 0, 0, 0, 0, 0, 0)	44	211000
	2	4	3	31000	6	-7344(26,21, 4, 1, 0, 0, 0, 0, 0, 0)	46	321000
	3	4	3	31000	6	-2544(27,23, 3, 1, 0, 0, 0, 0, 0, 0)	46	222000
	4	4	2	31000	2	-270(24,16, 8, 0, 0, 0, 0, 0, 0, 0)	48	110000
	5	4	2	31000	2	-2448(25,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	210000
	6	4	2	31000	2	-2640(27,22, 5, 0, 0, 0, 0, 0, 0, 0)	48	310000
	7	4	2	31000	2	-4716(28,24, 4, 0, 0, 0, 0, 0, 0, 0)	48	220000
	8	4	2	31000	2	-8592(29,26, 3, 0, 0, 0, 0, 0, 0, 0)	50	320000
	9	4	2	31000	2	-3496(30,28, 2, 0, 0, 0, 0, 0, 0, 0)	52	330000
	10	4	2	22000	8	-1692(24,16, 8, 0, 0, 0, 0, 0, 0, 0)	48	100001
	11	4	2	22000	8	-7872(26,20, 6, 0, 0, 0, 0, 0, 0, 0)	48	200001
	12	4	2	22000	8	-9024(28,24, 4, 0, 0, 0, 0, 0, 0, 0)	48	300002
	13	4	2	22000	8	-5760(27,22, 5, 0, 0, 0, 0, 0, 0, 0)	48	300001
	14	4	2	22000	8	-13056(29,26, 3, 0, 0, 0, 0, 0, 0, 0)	50	300002
	15	4	2	22000	8	-4640(30,28, 2, 0, 0, 0, 0, 0, 0, 0)	52	300003

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COORD	TERM	GRAPH MATRIX
(4,3)								
	1	4	1	21100	4	16500(28,24, 4, 0, 0, 0, 0, 0, 0)	48	100000
	2	4	1	21100	4	41160(30,28, 2, 0, 0, 0, 0, 0, 0)	52	200000
	3	4	1	21100	4	31344(31,30, 1, 0, 0, 0, 0, 0, 0)	54	300000
(4,4)								
	1	4	0	11110	24	-209322(32,32, 0, 0, 0, 0, 0, 0, 0)	56	000000
(5,1)								
	1	5	10	50000	120	2880(22,11, 7, 2, 1, 1, 0, 0, 0)	46	312122211
	2	5	10	50000	120	2880(23,12, 7, 3, 0, 1, 0, 0, 0)	48	213312221
	3	5	10	50000	120	960(24,14, 6, 3, 0, 1, 0, 0, 0)	48	222222311
	4	5	9	50000	12	288(24,14, 6, 2, 2, 0, 0, 0, 0)	48	1211233210
	5	5	9	50000	12	576(24,15, 4, 3, 2, 0, 0, 0, 0)	46	2113122210
	6	5	9	50000	12	576(25,15, 7, 1, 2, 0, 0, 0, 0)	50	1212323210
	7	5	9	50000	12	288(24,14, 6, 2, 2, 0, 0, 0, 0)	48	1213213210
	8	5	9	50000	12	144(24,16, 2, 4, 2, 0, 0, 0, 0)	46	2112212210
	9	5	9	50000	12	288(25,16, 5, 2, 2, 0, 0, 0, 0)	48	2112232210
	10	5	9	50000	12	144(26,16, 8, 0, 2, 0, 0, 0, 0)	52	1123223220
	11	5	8	50000	4	96(22,10, 8, 2, 2, 0, 0, 0, 0)	48	1211212001
	12	5	8	50000	4	192(24,13, 8, 1, 2, 0, 0, 0, 0)	50	1211213002
	13	5	8	50000	4	192(24,14, 5, 4, 1, 0, 0, 0, 0)	48	3211212001
	14	5	8	50000	4	384(26,17, 5, 3, 1, 0, 0, 0, 0)	50	3211213002
	15	5	8	50000	4	192(24,14, 5, 4, 1, 0, 0, 0, 0)	48	2111322001
	16	5	8	50000	4	384(26,17, 5, 3, 1, 0, 0, 0, 0)	50	2111323002
	17	5	8	50000	4	192(25,14, 8, 2, 1, 0, 0, 0, 0)	52	2312213001
	18	5	8	50000	4	384(26,16, 7, 2, 1, 0, 0, 0, 0)	52	2312212002
	19	5	8	50000	4	192(25,14, 8, 2, 1, 0, 0, 0, 0)	52	1212323001
	20	5	8	50000	4	192(25,15, 6, 3, 1, 0, 0, 0, 0)	50	2221312001
	21	5	8	50000	4	192(25,15, 6, 3, 1, 0, 0, 0, 0)	50	3121222001
	22	5	8	50000	4	384(27,18, 6, 2, 1, 0, 0, 0, 0)	52	2221313002
	23	5	8	50000	4	384(27,18, 6, 2, 1, 0, 0, 0, 0)	52	3121223002
	24	5	8	50000	4	96(25,13,10, 1, 1, 0, 0, 0, 0)	54	1322313001
	25	5	8	50000	4	96(26,15, 9, 1, 1, 0, 0, 0, 0)	54	1322312002
	26	5	8	50000	4	96(26,18, 3, 4, 1, 0, 0, 0, 0)	48	2221113002
	27	5	8	50000	4	96(26,18, 3, 4, 1, 0, 0, 0, 0)	48	1121223002
	28	5	8	50000	4	192(26,17, 5, 3, 1, 0, 0, 0, 0)	50	1231213002
	29	5	8	50000	4	192(25,14, 8, 2, 1, 0, 0, 0, 0)	52	2311322001
	30	5	8	50000	4	288(27,17, 8, 1, 1, 0, 0, 0, 0)	54	2311323002
	31	5	8	50000	4	96(27,17, 8, 1, 1, 0, 0, 0, 0)	54	2222223001
	32	5	8	50000	4	96(28,19, 7, 1, 1, 0, 0, 0, 0)	54	2222222002
	33	5	8	50000	8	24(24,16, 0, 8, 0, 0, 0, 0, 0)	50	1121021202
	34	5	8	50000	8	192(26,18, 2, 6, 0, 0, 0, 0, 0)	50	1231031202
	35	5	8	50000	8	192(27,19, 3, 5, 0, 0, 0, 0, 0)	50	2221031302
	36	5	8	50000	8	144(28,20, 4, 4, 0, 0, 0, 0, 0)	52	2132031303
	37	5	8	50000	8	192(28,20, 4, 4, 0, 0, 0, 0, 0)	52	2132032202
	38	5	8	50000	8	48(28,20, 4, 4, 0, 0, 0, 0, 0)	52	2222022202
	39	5	7	50000	2	48(24,14, 4, 6, 0, 0, 0, 0, 0)	50	1121022100
	40	5	7	50000	2	96(26,17, 4, 5, 0, 0, 0, 0, 0)	50	1123021200
	41	5	7	50000	2	96(26,17, 4, 5, 0, 0, 0, 0, 0)	50	1122032100
	42	5	7	50000	2	24(24,14, 4, 6, 0, 0, 0, 0, 0)	50	1122012100
	43	5	7	50000	2	96(26,17, 4, 5, 0, 0, 0, 0, 0)	50	1123022100
	44	5	7	50000	2	48(28,20, 4, 4, 0, 0, 0, 0, 0)	52	1122032300
	45	5	7	50000	2	192(28,20, 4, 4, 0, 0, 0, 0, 0)	52	1122033200
	46	5	7	50000	2	96(28,20, 4, 4, 0, 0, 0, 0, 0)	52	1123023200
	47	5	7	50000	2	96(26,16, 6, 4, 0, 0, 0, 0, 0)	52	1231032100
	48	5	7	50000	2	144(28,19, 6, 3, 0, 0, 0, 0, 0)	54	1231033200
	49	5	7	50000	2	96(27,18, 5, 4, 0, 0, 0, 0, 0)	52	1232021200
	50	5	7	50000	2	192(29,21, 5, 3, 0, 0, 0, 0, 0)	54	2132032200
	51	5	7	50000	2	192(27,18, 5, 4, 0, 0, 0, 0, 0)	52	1232022100
	52	5	7	50000	2	288(29,21, 5, 3, 0, 0, 0, 0, 0)	54	2133022200
	53	5	7	50000	2	96(26,16, 6, 4, 0, 0, 0, 0, 0)	52	2131023100
	54	5	7	50000	2	144(28,19, 6, 3, 0, 0, 0, 0, 0)	54	2132033100
	55	5	7	50000	2	96(26,16, 6, 4, 0, 0, 0, 0, 0)	52	1233012100
	56	5	7	50000	2	144(28,19, 6, 3, 0, 0, 0, 0, 0)	54	2133023100
	57	5	7	50000	2	96(28,19, 6, 3, 0, 0, 0, 0, 0)	54	2221032200
	58	5	7	50000	2	96(27,17, 7, 3, 0, 0, 0, 0, 0)	54	2221033100
	59	5	7	50000	2	144(29,21, 5, 3, 0, 0, 0, 0, 0)	54	2222022200
	60	5	7	50000	2	192(28,19, 6, 3, 0, 0, 0, 0, 0)	54	2222023100
	61	5	7	50000	2	48(27,17, 7, 3, 0, 0, 0, 0, 0)	54	2223013100
	62	5	7	50000	12	288(29,20, 4, 4, 0, 0, 0, 0, 0)	52	3123022210
	63	5	7	50000	12	576(28,20, 4, 4, 0, 0, 0, 0, 0)	52	2133022010
	64	5	7	50000	12	288(28,20, 4, 4, 0, 0, 0, 0, 0)	52	2132032010
	65	5	7	50000	12	288(30,23, 4, 3, 0, 0, 0, 0, 0)	54	3123023020
	66	5	7	50000	12	864(30,23, 4, 3, 0, 0, 0, 0, 0)	54	2133023020
	67	5	7	50000	4	96(28,18, 8, 2, 0, 0, 0, 0, 0)	56	3210322002
	68	5	7	50000	4	192(30,22, 6, 2, 0, 0, 0, 0, 0)	56	3210323003
	69	5	7	50000	4	192(29,20, 7, 2, 0, 0, 0, 0, 0)	56	2310323002
	70	5	7	50000	4	48(30,22, 6, 2, 0, 0, 0, 0, 0)	56	2220223003
	71	5	7	50000	6	1152(27,18, 6, 2, 1, 0, 0, 0, 0)	52	1213210003
	72	5	7	50000	6	288(24,12, 9, 2, 1, 0, 0, 0, 0)	52	1213210001
	73	5	7	50000	6	1152(26,16, 7, 2, 1, 0, 0, 0, 0)	52	1213210002
	74	5	7	50000	6	72(24,12,10, 0, 2, 0, 0, 0, 0)	52	1122110002
	75	5	7	50000	6	144(25,14, 9, 0, 2, 0, 0, 0, 0)	52	1122110003
	76	5	7	50000	6	576(27,19, 4, 3, 1, 0, 0, 0, 0)	50	2112210003
	77	5	7	50000	6	144(24,13, 7, 3, 1, 0, 0, 0, 0)	50	2112210001
	78	5	7	50000	6	576(26,17, 5, 3, 1, 0, 0, 0, 0)	50	2112210002
	79	5	7	50000	6	720(28,19, 7, 1, 1, 0, 0, 0, 0)	54	1123220003
	80	5	7	50000	6	144(25,13,10, 1, 1, 0, 0, 0, 0)	54	1123220001
	81	5	7	50000	6	720(27,17, 8, 1, 1, 0, 0, 0, 0)	54	1123220002
	82	5	7	50000	6	288(26,16, 7, 2, 1, 0, 0, 0, 0)	52	3122110002
	83	5	7	50000	6	576(27,18, 6, 2, 1, 0, 0, 0, 0)	52	3122110003
	84	5	7	50000	6	576(27,17, 8, 1, 1, 0, 0, 0, 0)	54	2312210002
	85	5	7	50000	6	864(28,19, 7, 1, 1, 0, 0, 0, 0)	54	2312210003
	86	5	7	50000	6	288(27,16,10, 0, 1, 0, 0, 0, 0)	56	1233210002
	87	5	7	50000	6	432(28,18, 9, 0, 1, 0, 0, 0, 0)	56	1233210003
	88	5	7	50000	6	48(27,19, 4, 3, 1, 0, 0, 0, 0)	50	2221110003
	89	5	7	50000	6	288(28,19, 7, 1, 1, 0, 0, 0, 0)	54	2223110003
	90	5	7	50000	6	144(27,17, 8, 1, 1, 0, 0, 0, 0)	54	2223110002
	91	5	7	50000	6	192(30,22, 7, 0, 1, 0, 0, 0, 0)	56	2222220003
	92	5	7	50000	6	144(29,20, 8, 0, 1, 0, 0, 0, 0)	56	2222220002
	93	5	6	50000	12	144(32,24, 8, 0, 0, 0, 0, 0, 0)	60	3033032020
	94	5	6	50000	12	144(34,28, 6, 0, 0, 0, 0, 0, 0)	60	3033033030
	95	5	6	50000	2	24(26,14,10, 2, 0, 0, 0, 0, 0)	56	2112000202

GRAPH	N	L	C	SYMMTRY NUMBER	COUNT	CNOF	TERM	GRAPH	MATRIX
96	5	6	50000	2	96(28,18,	8, 2, 0, 0, 0, 0, 01	56	2113000203	
97	5	6	50000	2	48(28,18,	8, 2, 0, 0, 0, 0, 01	56	2113000302	
98	5	6	50000	2	96(30,21,	8, 1, 0, 0, 0, 0, 01	58	2133000203	
99	5	6	50000	2	96(30,21,	8, 1, 0, 0, 0, 0, 01	58	2313000302	
100	5	6	50000	2	48(29,19,	9, 1, 0, 0, 0, 0, 01	58	2222000202	
101	5	6	50000	2	192(31,23,	7, 1, 0, 0, 0, 0, 01	58	2223000203	
102	5	6	50000	2	144(31,23,	7, 1, 0, 0, 0, 0, 01	58	2223000302	
103	5	6	50000	2	96(29,19,	9, 1, 0, 0, 0, 0, 01	58	3212000203	
104	5	6	50000	2	96(29,19,	9, 1, 0, 0, 0, 0, 01	58	3213000202	
105	5	6	50000	2	96(29,19,	9, 1, 0, 0, 0, 0, 01	58	3123000202	
106	5	6	50000	2	240(31,23,	7, 1, 0, 0, 0, 0, 01	58	3213000303	
107	5	6	50000	8	384(24,12,	8, 4, 0, 0, 0, 0, 01	52	2112001001	
108	5	6	50000	8	768(26,15,	8, 3, 0, 0, 0, 0, 01	54	3122001001	
109	5	6	50000	8	768(27,17,	7, 3, 0, 0, 0, 0, 01	54	2222001001	
110	5	6	50000	8	1536(26,15,	8, 3, 0, 0, 0, 0, 01	54	3212001001	
111	5	6	50000	8	384(28,18,	8, 2, 0, 0, 0, 0, 01	56	3123001002	
112	5	6	50000	8	768(29,20,	7, 2, 0, 0, 0, 0, 01	56	2223001002	
113	5	6	50000	8	1536(28,18,	8, 2, 0, 0, 0, 0, 01	56	3123002001	
114	5	6	50000	8	192(26,15,	8, 3, 0, 0, 0, 0, 01	54	1123002001	
115	5	6	50000	8	192(29,20,	7, 2, 0, 0, 0, 0, 01	56	2123002002	
116	5	6	50000	8	768(28,18,	8, 2, 0, 0, 0, 0, 01	56	2133002001	
117	5	6	50000	8	1920(29,20,	7, 2, 0, 0, 0, 0, 01	56	2223002001	
118	5	6	50000	8	1344(28,18,	8, 2, 0, 0, 0, 0, 01	56	3213002001	
119	5	6	50000	8	576(30,22,	6, 2, 0, 0, 0, 0, 01	56	2222002002	
120	5	6	50000	2	48(24,12,	8, 4, 0, 0, 0, 0, 01	52	2112010100	
121	5	6	50000	2	192(26,16,	6, 4, 0, 0, 0, 0, 01	52	2112010200	
122	5	6	50000	2	192(27,18,	5, 4, 0, 0, 0, 0, 01	52	2112010300	
123	5	6	50000	2	48(24,12,	8, 4, 0, 0, 0, 0, 01	52	1122010100	
124	5	6	50000	2	192(26,16,	6, 4, 0, 0, 0, 0, 01	52	1122010200	
125	5	6	50000	2	192(27,18,	5, 4, 0, 0, 0, 0, 01	52	1122010300	
126	5	6	50000	2	96(26,15,	8, 3, 0, 0, 0, 0, 01	54	2113020100	
127	5	6	50000	2	384(28,19,	6, 3, 0, 0, 0, 0, 01	54	2113020200	
128	5	6	50000	2	384(29,21,	5, 3, 0, 0, 0, 0, 01	54	2113020300	
129	5	6	50000	2	96(26,15,	8, 3, 0, 0, 0, 0, 01	54	1123020100	
130	5	6	50000	2	384(28,19,	6, 3, 0, 0, 0, 0, 01	54	1123020200	
131	5	6	50000	2	384(29,21,	5, 3, 0, 0, 0, 0, 01	54	1123020300	
132	5	6	50000	2	48(26,14,10,	2, 0, 0, 0, 0, 01	56	3213010100	
133	5	6	50000	2	192(28,18,	8, 2, 0, 0, 0, 0, 01	56	3213010200	
134	5	6	50000	2	192(29,20,	7, 2, 0, 0, 0, 0, 01	56	3213010300	
135	5	6	50000	2	96(27,16,	9, 2, 0, 0, 0, 0, 01	56	3212020100	
136	5	6	50000	2	384(29,20,	7, 2, 0, 0, 0, 0, 01	56	3212020200	
137	5	6	50000	2	384(30,22,	6, 2, 0, 0, 0, 0, 01	56	3212020300	
138	5	6	50000	2	48(26,14,10,	2, 0, 0, 0, 0, 01	56	1233010100	
139	5	6	50000	2	192(28,18,	8, 2, 0, 0, 0, 0, 01	56	1233010200	
140	5	6	50000	2	192(29,20,	7, 2, 0, 0, 0, 0, 01	56	1233010300	
141	5	6	50000	2	192(26,15,	8, 3, 0, 0, 0, 0, 01	54	3122010100	
142	5	6	50000	2	672(28,19,	6, 3, 0, 0, 0, 0, 01	54	3122010200	
143	5	6	50000	2	576(29,21,	5, 3, 0, 0, 0, 0, 01	54	3122010300	
144	5	6	50000	2	288(28,18,	8, 2, 0, 0, 0, 0, 01	56	3123020100	
145	5	6	50000	2	912(30,22,	6, 2, 0, 0, 0, 0, 01	56	3123020200	
146	5	6	50000	2	672(31,24,	5, 2, 0, 0, 0, 0, 01	56	3123020300	
147	5	6	50000	2	192(26,15,	8, 3, 0, 0, 0, 0, 01	54	2132010100	
148	5	6	50000	2	672(28,19,	6, 3, 0, 0, 0, 0, 01	54	2132010200	
149	5	6	50000	2	576(29,21,	5, 3, 0, 0, 0, 0, 01	54	2132010300	
150	5	6	50000	2	288(28,18,	8, 2, 0, 0, 0, 0, 01	56	2133020100	
151	5	6	50000	2	912(30,22,	6, 2, 0, 0, 0, 0, 01	56	2133020200	
152	5	6	50000	2	768(31,24,	5, 2, 0, 0, 0, 0, 01	56	2133020300	
153	5	6	50000	2	480(29,20,	7, 2, 0, 0, 0, 0, 01	56	2223010200	
154	5	6	50000	2	480(30,22,	6, 2, 0, 0, 0, 0, 01	56	2223010300	
155	5	6	50000	2	96(27,16,	9, 2, 0, 0, 0, 0, 01	56	2223010100	
156	5	6	50000	2	480(30,22,	6, 2, 0, 0, 0, 0, 01	56	2222020200	
157	5	6	50000	2	432(31,24,	5, 2, 0, 0, 0, 0, 01	56	2222020300	
158	5	6	50000	2	96(28,18,	8, 2, 0, 0, 0, 0, 01	56	2222020100	
159	5	6	50000	2	48(26,16,	6, 4, 0, 0, 0, 0, 01	52	1122012000	
160	5	6	50000	2	96(27,18,	5, 4, 0, 0, 0, 0, 01	52	1122013000	
161	5	6	50000	2	96(29,21,	5, 3, 0, 0, 0, 0, 01	54	2131023000	
162	5	6	50000	2	96(29,19,	6, 3, 0, 0, 0, 0, 01	54	3121022000	
163	5	6	50000	2	192(29,21,	5, 3, 0, 0, 0, 0, 01	54	3121023000	
164	5	6	50000	2	96(29,20,	7, 2, 0, 0, 0, 0, 01	56	1232022000	
165	5	6	50000	2	192(30,22,	6, 2, 0, 0, 0, 0, 01	56	1232023000	
166	5	6	50000	2	96(29,18,	8, 2, 0, 0, 0, 0, 01	56	1233012000	
167	5	6	50000	2	144(29,20,	7, 2, 0, 0, 0, 0, 01	56	1233013000	
168	5	6	50000	2	192(28,19,	6, 3, 0, 0, 0, 0, 01	54	2132012000	
169	5	6	50000	2	288(29,21,	5, 3, 0, 0, 0, 0, 01	54	2132013000	
170	5	6	50000	2	24(24,12,	8, 4, 0, 0, 0, 0, 01	52	2112011000	
171	5	6	50000	2	96(26,16,	6, 4, 0, 0, 0, 0, 01	52	2112012000	
172	5	6	50000	2	96(27,18,	5, 4, 0, 0, 0, 0, 01	52	2112013000	
173	5	6	50000	2	96(26,15,	8, 3, 0, 0, 0, 0, 01	54	3122011000	
174	5	6	50000	2	384(28,19,	6, 3, 0, 0, 0, 0, 01	54	3122012000	
175	5	6	50000	2	384(29,21,	5, 3, 0, 0, 0, 0, 01	54	3122013000	
176	5	6	50000	2	48(30,22,	6, 2, 0, 0, 0, 0, 01	56	2132032000	
177	5	6	50000	2	144(31,24,	5, 2, 0, 0, 0, 0, 01	56	2132033000	
178	5	6	50000	2	288(30,22,	6, 2, 0, 0, 0, 0, 01	56	2133022000	
179	5	6	50000	2	432(31,24,	5, 2, 0, 0, 0, 0, 01	56	2133023000	
180	5	6	50000	2	336(30,22,	6, 2, 0, 0, 0, 0, 01	56	2222022000	
181	5	6	50000	2	384(31,24,	5, 2, 0, 0, 0, 0, 01	56	2222023000	
182	5	6	50000	2	48(28,18,	8, 2, 0, 0, 0, 0, 01	56	2222021000	
183	5	6	50000	2	96(27,16,	9, 2, 0, 0, 0, 0, 01	56	2223011000	
184	5	6	50000	2	480(29,20,	7, 2, 0, 0, 0, 0, 01	56	2223012000	
185	5	6	50000	2	480(30,22,	6, 2, 0, 0, 0, 0, 01	56	2223013000	
186	5	6	50000	2	72(28,18,	8, 2, 0, 0, 0, 0, 01	56	3123021000	
187	5	6	50000	2	288(30,22,	6, 2, 0, 0, 0, 0, 01	56	3123022000	
188	5	6	50000	2	288(31,24,	5, 2, 0, 0, 0, 0, 01	56	3123023000	
189	5	6	50000	2	48(26,14,10,	2, 0, 0, 0, 0, 01	56	3213011000	
190	5	6	50000	2	168(28,18,	8, 2, 0, 0, 0, 0, 01	56	3213012000	
191	5	6	50000	2	144(29,20,	7, 2, 0, 0, 0, 0, 01	56	3213013000	
192	5	5	50000	10	240(32,24,	8, 0, 0, 0, 0, 0, 01	60	3300020202	
193	5	5	50000	10	240(32,24,	8, 0, 0, 0, 0, 0, 01	60	3200030202	
194	5	5	50000	2	24(28,16,12,	0, 0, 0, 0, 0, 0, 01	60	1202000022	
195	5	5	50000	2	48(30,20,10,	0, 0, 0, 0, 0, 0, 01	60	1202000032	
196	5	5	50000	2	96(30,20,10,	0, 0, 0, 0, 0, 0, 01	60	1302000032	
197	5	5	50000	2	96(30,20,10,	0, 0, 0, 0, 0, 0, 01	60	1203000032	
198	5	5	50000	2	96(30,20,10,	0, 0, 0, 0, 0, 0, 01	60	1303000022	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
199	5	5	50000	2	168(32,24,8,0,0,0,0,0,0,0,0)	60	1303000033	
200	5	5	50000	2	96(30,20,10,0,0,0,0,0,0,0,0)	60	2202000022	
201	5	5	50000	2	192(32,24,8,0,0,0,0,0,0,0,0)	60	2202000033	
202	5	5	50000	2	480(32,24,8,0,0,0,0,0,0,0,0)	60	2302000032	
203	5	5	50000	2	480(32,24,8,0,0,0,0,0,0,0,0)	60	2203000032	
204	5	5	50000	2	336(32,24,8,0,0,0,0,0,0,0,0)	60	2303000022	
205	5	5	50000	2	600(34,28,6,0,0,0,0,0,0,0,0)	60	2303000033	
206	5	5	50000	2	96(31,22,9,0,0,0,0,0,0,0,0)	60	3202000022	
207	5	5	50000	2	192(33,26,7,0,0,0,0,0,0,0,0)	60	3202000033	
208	5	5	50000	2	384(33,26,7,0,0,0,0,0,0,0,0)	60	3302000032	
209	5	5	50000	2	480(33,26,7,0,0,0,0,0,0,0,0)	60	3203000032	
210	5	5	50000	2	288(33,26,7,0,0,0,0,0,0,0,0)	60	3303000022	
211	5	5	50000	2	432(35,30,5,0,0,0,0,0,0,0,0)	60	3303000033	
212	5	5	50000	2	192(26,14,10,2,0,0,0,0,0,0,0)	56	1212000010	
213	5	5	50000	2	192(27,16,9,2,0,0,0,0,0,0,0)	56	1213000010	
214	5	5	50000	2	24(24,10,12,2,0,0,0,0,0,0,0)	56	1211000010	
215	5	5	50000	2	360(28,18,8,2,0,0,0,0,0,0,0)	56	1212000020	
216	5	5	50000	2	672(29,20,7,2,0,0,0,0,0,0,0)	56	1213000020	
217	5	5	50000	2	336(30,22,6,2,0,0,0,0,0,0,0)	56	1213000030	
218	5	5	50000	2	336(28,17,10,1,0,0,0,0,0,0,0)	58	2312000010	
219	5	5	50000	2	288(29,19,9,1,0,0,0,0,0,0,0)	58	2313000010	
220	5	5	50000	2	96(26,13,12,1,0,0,0,0,0,0,0)	58	2311000010	
221	5	5	50000	2	1248(30,21,8,1,0,0,0,0,0,0,0)	58	2312000020	
222	5	5	50000	2	1056(31,23,7,1,0,0,0,0,0,0,0)	58	2313000020	
223	5	5	50000	2	384(28,17,10,1,0,0,0,0,0,0,0)	58	1322000010	
224	5	5	50000	2	1248(31,23,7,1,0,0,0,0,0,0,0)	58	1323000020	
225	5	5	50000	2	912(32,25,6,1,0,0,0,0,0,0,0)	58	2313000030	
226	5	5	50000	2	384(29,19,9,1,0,0,0,0,0,0,0)	58	1323000010	
227	5	5	50000	2	192(28,18,8,2,0,0,0,0,0,0,0)	56	2112000020	
228	5	5	50000	2	192(29,20,7,2,0,0,0,0,0,0,0)	56	2113000020	
229	5	5	50000	2	48(26,14,10,2,0,0,0,0,0,0,0)	56	1122000010	
230	5	5	50000	2	384(29,20,7,2,0,0,0,0,0,0,0)	56	1123000020	
231	5	5	50000	2	384(30,22,6,2,0,0,0,0,0,0,0)	56	2113000030	
232	5	5	50000	2	96(27,16,9,2,0,0,0,0,0,0,0)	56	1123000010	
233	5	5	50000	2	672(30,21,8,1,0,0,0,0,0,0,0)	58	3212000020	
234	5	5	50000	2	576(31,23,7,1,0,0,0,0,0,0,0)	58	3213000020	
235	5	5	50000	2	192(28,17,10,1,0,0,0,0,0,0,0)	58	1232000010	
236	5	5	50000	2	912(31,23,7,1,0,0,0,0,0,0,0)	58	1233000020	
237	5	5	50000	2	768(32,25,6,1,0,0,0,0,0,0,0)	58	3213000030	
238	5	5	50000	2	288(29,19,9,1,0,0,0,0,0,0,0)	58	1233000010	
239	5	5	50000	2	384(31,23,7,1,0,0,0,0,0,0,0)	58	3123000020	
240	5	5	50000	2	96(28,17,10,1,0,0,0,0,0,0,0)	58	2132000010	
241	5	5	50000	2	384(30,21,8,1,0,0,0,0,0,0,0)	58	3122000020	
242	5	5	50000	2	576(32,25,6,1,0,0,0,0,0,0,0)	58	3123000030	
243	5	5	50000	2	144(29,19,9,1,0,0,0,0,0,0,0)	58	2133000010	
244	5	5	50000	2	576(31,23,7,1,0,0,0,0,0,0,0)	58	2133000020	
245	5	5	50000	2	480(30,21,8,1,0,0,0,0,0,0,0)	58	2223000010	
246	5	5	50000	2	48(27,15,11,1,0,0,0,0,0,0,0)	58	2221000010	
247	5	5	50000	2	480(29,19,9,1,0,0,0,0,0,0,0)	58	2222000010	
248	5	5	50000	2	2208(32,25,6,1,0,0,0,0,0,0,0)	58	2223000020	
249	5	5	50000	2	1152(31,23,7,1,0,0,0,0,0,0,0)	58	2222000020	
250	5	5	50000	2	1056(33,27,5,1,0,0,0,0,0,0,0)	58	2223000030	
251	5	5	50000	4	192(28,18,8,2,0,0,0,0,0,0,0)	56	2112002000	
252	5	5	50000	4	768(29,20,7,2,0,0,0,0,0,0,0)	56	2113002000	
253	5	5	50000	4	576(30,22,6,2,0,0,0,0,0,0,0)	56	2113003000	
254	5	5	50000	4	192(30,21,8,1,0,0,0,0,0,0,0)	58	3122002000	
255	5	5	50000	4	768(31,23,7,1,0,0,0,0,0,0,0)	58	3123002000	
256	5	5	50000	4	576(32,25,6,1,0,0,0,0,0,0,0)	58	3123003000	
257	5	5	50000	4	48(30,22,6,2,0,0,0,0,0,0,0)	56	1123003000	
258	5	5	50000	4	192(31,23,7,1,0,0,0,0,0,0,0)	58	2133002000	
259	5	5	50000	4	288(32,25,6,1,0,0,0,0,0,0,0)	58	2133003000	
260	5	5	50000	4	192(28,17,10,1,0,0,0,0,0,0,0)	58	3212001000	
261	5	5	50000	4	384(29,19,9,1,0,0,0,0,0,0,0)	58	3213001000	
262	5	5	50000	4	1056(30,21,8,1,0,0,0,0,0,0,0)	58	3212002000	
263	5	5	50000	4	2688(31,23,7,1,0,0,0,0,0,0,0)	58	3213002000	
264	5	5	50000	4	1440(32,25,6,1,0,0,0,0,0,0,0)	58	3213003000	
265	5	5	50000	4	96(30,21,8,1,0,0,0,0,0,0,0)	58	2223001000	
266	5	5	50000	4	384(31,23,7,1,0,0,0,0,0,0,0)	58	2222002000	
267	5	5	50000	4	1440(32,25,6,1,0,0,0,0,0,0,0)	58	2223002000	
268	5	5	50000	4	960(33,27,5,1,0,0,0,0,0,0,0)	58	2223003000	
269	5	5	50000	2	48(24,10,12,2,0,0,0,0,0,0,0)	56	2111000001	
270	5	5	50000	2	192(26,14,10,2,0,0,0,0,0,0,0)	56	2111000002	
271	5	5	50000	2	192(27,16,9,2,0,0,0,0,0,0,0)	56	2111000003	
272	5	5	50000	2	384(26,14,10,2,0,0,0,0,0,0,0)	56	2112000001	
273	5	5	50000	2	1296(28,18,8,2,0,0,0,0,0,0,0)	56	2112000002	
274	5	5	50000	2	1056(29,20,7,2,0,0,0,0,0,0,0)	56	2112000003	
275	5	5	50000	2	1248(30,22,6,2,0,0,0,0,0,0,0)	56	2113000003	
276	5	5	50000	2	576(27,16,9,2,0,0,0,0,0,0,0)	56	2113000001	
277	5	5	50000	2	1632(29,20,7,2,0,0,0,0,0,0,0)	56	2113000002	
278	5	5	50000	2	48(26,13,12,1,0,0,0,0,0,0,0)	58	3121000001	
279	5	5	50000	2	192(28,17,10,1,0,0,0,0,0,0,0)	58	3121000002	
280	5	5	50000	2	192(29,19,9,1,0,0,0,0,0,0,0)	58	3121000003	
281	5	5	50000	2	384(28,17,10,1,0,0,0,0,0,0,0)	58	3122000001	
282	5	5	50000	2	1248(30,21,8,1,0,0,0,0,0,0,0)	58	3122000002	
283	5	5	50000	2	1056(31,23,7,1,0,0,0,0,0,0,0)	58	3122000003	
284	5	5	50000	2	576(29,19,9,1,0,0,0,0,0,0,0)	58	3123000001	
285	5	5	50000	2	1632(31,23,7,1,0,0,0,0,0,0,0)	58	3123000002	
286	5	5	50000	2	1104(32,25,6,1,0,0,0,0,0,0,0)	58	3123000003	
287	5	5	50000	2	48(26,14,10,2,0,0,0,0,0,0,0)	56	1122000001	
288	5	5	50000	2	168(28,18,8,2,0,0,0,0,0,0,0)	56	1122000002	
289	5	5	50000	2	144(29,20,7,2,0,0,0,0,0,0,0)	56	1122000003	
290	5	5	50000	2	336(30,22,6,2,0,0,0,0,0,0,0)	56	1123000003	
291	5	5	50000	2	144(27,16,9,2,0,0,0,0,0,0,0)	56	1123000001	
292	5	5	50000	2	432(29,20,7,2,0,0,0,0,0,0,0)	56	1123000002	
293	5	5	50000	2	192(28,17,10,1,0,0,0,0,0,0,0)	58	2132000001	
294	5	5	50000	2	672(30,21,8,1,0,0,0,0,0,0,0)	58	2132000002	
295	5	5	50000	2	576(31,23,7,1,0,0,0,0,0,0,0)	58	2132000003	
296	5	5	50000	2	432(29,19,9,1,0,0,0,0,0,0,0)	58	2133000001	
297	5	5	50000	2	1200(31,23,7,1,0,0,0,0,0,0,0)	58	2133000002	
298	5	5	50000	2	912(32,25,6,1,0,0,0,0,0,0,0)	58	2133000003	
299	5	5	50000	2	96(26,13,12,1,0,0,0,0,0,0,0)	58	3211000001	
300	5	5	50000	2	384(28,17,10,1,0,0,0,0,0,0,0)	58	3211000002	
301	5	5	50000	2	384(29,19,9,1,0,0,0,0,0,0,0)	58	3211000003	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
302	5	5	50000	2	672(28,17,10,	1, 0, 0, 0, 0, 0)	58	3212000001
303	5	5	50000	2	2160(30,21,8,	1, 0, 0, 0, 0, 0)	58	3212000002
304	5	5	50000	2	1728(31,23,7,	1, 0, 0, 0, 0, 0)	58	3212000003
305	5	5	50000	2	864(29,19,9,	1, 0, 0, 0, 0, 0)	58	3213000001
306	5	5	50000	2	2304(31,23,7,	1, 0, 0, 0, 0, 0)	58	3213000002
307	5	5	50000	2	1584(32,25,6,	1, 0, 0, 0, 0, 0)	58	3213000003
308	5	5	50000	2	48(27,15,11,	1, 0, 0, 0, 0, 0)	58	2221000001
309	5	5	50000	2	192(29,19,9,	1, 0, 0, 0, 0, 0)	58	2221000002
310	5	5	50000	2	192(30,21,8,	1, 0, 0, 0, 0, 0)	58	2221000003
311	5	5	50000	2	480(29,19,9,	1, 0, 0, 0, 0, 0)	58	2222000001
312	5	5	50000	2	1584(31,23,7,	1, 0, 0, 0, 0, 0)	58	2222000002
313	5	5	50000	2	1248(32,25,6,	1, 0, 0, 0, 0, 0)	58	2222000003
314	5	5	50000	2	1440(33,27,5,	1, 0, 0, 0, 0, 0)	58	2223000003
315	5	5	50000	2	720(30,21,8,	1, 0, 0, 0, 0, 0)	58	2223000001
316	5	5	50000	2	1872(32,25,6,	1, 0, 0, 0, 0, 0)	58	2223000002
317	5	4	50000	24	576(32,24,8,	0, 0, 0, 0, 0, 0)	60	3302001000
318	5	4	50000	24	576(33,26,7,	0, 0, 0, 0, 0, 0)	60	3303001000
319	5	4	50000	24	216(32,24,8,	0, 0, 0, 0, 0, 0)	60	2202002000
320	5	4	50000	24	2112(33,26,7,	0, 0, 0, 0, 0, 0)	60	3202002000
321	5	4	50000	24	6048(34,28,6,	0, 0, 0, 0, 0, 0)	60	3302002000
322	5	4	50000	24	5760(35,30,5,	0, 0, 0, 0, 0, 0)	60	3303002000
323	5	4	50000	24	1680(36,32,4,	0, 0, 0, 0, 0, 0)	62	3303003000
324	5	4	50000	2	96(28,16,12,	0, 0, 0, 0, 0, 0)	60	2102000001
325	5	4	50000	2	288(30,20,10,	0, 0, 0, 0, 0, 0)	60	2102000002
326	5	4	50000	2	192(31,22,9,	0, 0, 0, 0, 0, 0)	60	2102000003
327	5	4	50000	2	576(32,24,8,	0, 0, 0, 0, 0, 0)	60	2103000003
328	5	4	50000	2	288(29,18,11,	0, 0, 0, 0, 0, 0)	60	2103000001
329	5	4	50000	2	768(31,22,9,	0, 0, 0, 0, 0, 0)	60	2103000002
330	5	4	50000	2	192(29,18,11,	0, 0, 0, 0, 0, 0)	60	3102000001
331	5	4	50000	2	576(31,22,9,	0, 0, 0, 0, 0, 0)	60	3102000002
332	5	4	50000	2	480(32,24,8,	0, 0, 0, 0, 0, 0)	60	3102000003
333	5	4	50000	2	432(30,20,10,	0, 0, 0, 0, 0, 0)	60	3103000001
334	5	4	50000	2	1104(32,24,8,	0, 0, 0, 0, 0, 0)	60	3103000002
335	5	4	50000	2	672(33,26,7,	0, 0, 0, 0, 0, 0)	60	3103000003
336	5	4	50000	2	24(28,16,12,	0, 0, 0, 0, 0, 0)	60	2201000001
337	5	4	50000	2	96(30,20,10,	0, 0, 0, 0, 0, 0)	60	2201000002
338	5	4	50000	2	96(31,22,9,	0, 0, 0, 0, 0, 0)	60	2201000003
339	5	4	50000	2	1200(33,26,7,	0, 0, 0, 0, 0, 0)	60	2202000003
340	5	4	50000	2	528(30,20,10,	0, 0, 0, 0, 0, 0)	60	2202000001
341	5	4	50000	2	1656(32,24,8,	0, 0, 0, 0, 0, 0)	60	2202000002
342	5	4	50000	2	1872(34,28,6,	0, 0, 0, 0, 0, 0)	60	2203000003
343	5	4	50000	2	1008(31,22,9,	0, 0, 0, 0, 0, 0)	60	2203000001
344	5	4	50000	2	2544(33,26,7,	0, 0, 0, 0, 0, 0)	60	2203000002
345	5	4	50000	2	96(29,18,11,	0, 0, 0, 0, 0, 0)	60	3201000001
346	5	4	50000	2	384(31,22,9,	0, 0, 0, 0, 0, 0)	60	3201000002
347	5	4	50000	2	384(32,24,8,	0, 0, 0, 0, 0, 0)	60	3201000003
348	5	4	50000	2	3168(34,28,6,	0, 0, 0, 0, 0, 0)	60	3202000003
349	5	4	50000	2	1344(31,22,9,	0, 0, 0, 0, 0, 0)	60	3202000001
350	5	4	50000	2	4032(33,26,7,	0, 0, 0, 0, 0, 0)	60	3202000002
351	5	4	50000	2	2160(32,24,8,	0, 0, 0, 0, 0, 0)	60	3203000001
352	5	4	50000	2	5328(34,28,6,	0, 0, 0, 0, 0, 0)	60	3203000002
353	5	4	50000	2	3360(35,30,5,	0, 0, 0, 0, 0, 0)	60	3203000003
354	5	4	50000	2	72(30,20,10,	0, 0, 0, 0, 0, 0)	60	3301000001
355	5	4	50000	2	288(32,24,8,	0, 0, 0, 0, 0, 0)	60	3301000002
356	5	4	50000	2	288(33,26,7,	0, 0, 0, 0, 0, 0)	60	3301000003
357	5	4	50000	2	720(32,24,8,	0, 0, 0, 0, 0, 0)	60	3302000001
358	5	4	50000	2	2088(34,28,6,	0, 0, 0, 0, 0, 0)	60	3302000002
359	5	4	50000	2	1680(35,30,5,	0, 0, 0, 0, 0, 0)	60	3302000003
360	5	4	50000	2	1008(33,26,7,	0, 0, 0, 0, 0, 0)	60	3303000001
361	5	4	50000	2	2448(35,30,5,	0, 0, 0, 0, 0, 0)	60	3303000002
362	5	4	50000	2	1344(36,32,4,	0, 0, 0, 0, 0, 0)	62	3303000003
363	5	4	50000	2	6(24,8,16,	0, 0, 0, 0, 0, 0)	60	1100100010
364	5	4	50000	2	48(26,12,14,	0, 0, 0, 0, 0, 0)	60	1100200010
365	5	4	50000	2	48(27,14,13,	0, 0, 0, 0, 0, 0)	60	1100300010
366	5	4	50000	2	96(28,16,12,	0, 0, 0, 0, 0, 0)	60	1100200020
367	5	4	50000	2	192(29,18,11,	0, 0, 0, 0, 0, 0)	60	1100300020
368	5	4	50000	2	96(30,20,10,	0, 0, 0, 0, 0, 0)	60	1100300030
369	5	4	50000	2	336(28,16,12,	0, 0, 0, 0, 0, 0)	60	2100200010
370	5	4	50000	2	288(29,18,11,	0, 0, 0, 0, 0, 0)	60	2100300010
371	5	4	50000	2	96(26,12,14,	0, 0, 0, 0, 0, 0)	60	2100100010
372	5	4	50000	2	1344(30,20,10,	0, 0, 0, 0, 0, 0)	60	2100200020
373	5	4	50000	2	1152(31,22,9,	0, 0, 0, 0, 0, 0)	60	2100300020
374	5	4	50000	2	384(28,16,12,	0, 0, 0, 0, 0, 0)	60	1200200010
375	5	4	50000	2	1344(31,22,9,	0, 0, 0, 0, 0, 0)	60	1200300020
376	5	4	50000	2	1152(32,24,8,	0, 0, 0, 0, 0, 0)	60	2100300030
377	5	4	50000	2	384(29,18,11,	0, 0, 0, 0, 0, 0)	60	1200300010
378	5	4	50000	2	432(29,18,11,	0, 0, 0, 0, 0, 0)	60	3100200010
379	5	4	50000	2	336(30,20,10,	0, 0, 0, 0, 0, 0)	60	3100300010
380	5	4	50000	2	144(27,14,13,	0, 0, 0, 0, 0, 0)	60	3100100010
381	5	4	50000	2	1728(31,22,9,	0, 0, 0, 0, 0, 0)	60	3100200020
382	5	4	50000	2	1344(32,24,8,	0, 0, 0, 0, 0, 0)	60	3100300020
383	5	4	50000	2	576(29,18,11,	0, 0, 0, 0, 0, 0)	60	1300200010
384	5	4	50000	2	1728(32,24,8,	0, 0, 0, 0, 0, 0)	60	1300300020
385	5	4	50000	2	1344(33,26,7,	0, 0, 0, 0, 0, 0)	60	3100300030
386	5	4	50000	2	576(30,20,10,	0, 0, 0, 0, 0, 0)	60	1300300010
387	5	4	50000	2	336(28,16,12,	0, 0, 0, 0, 0, 0)	60	2200100010
388	5	4	50000	2	2256(30,20,10,	0, 0, 0, 0, 0, 0)	60	2200200010
389	5	4	50000	2	1824(31,22,9,	0, 0, 0, 0, 0, 0)	60	2200300010
390	5	4	50000	2	3804(32,24,8,	0, 0, 0, 0, 0, 0)	60	2200200020
391	5	4	50000	2	6096(33,26,7,	0, 0, 0, 0, 0, 0)	60	2200300020
392	5	4	50000	2	2496(34,28,6,	0, 0, 0, 0, 0, 0)	60	2200300030
393	5	4	50000	2	1824(32,24,8,	0, 0, 0, 0, 0, 0)	60	3200300010
394	5	4	50000	2	864(29,18,11,	0, 0, 0, 0, 0, 0)	60	3200100010
395	5	4	50000	2	2400(31,22,9,	0, 0, 0, 0, 0, 0)	60	3200200010
396	5	4	50000	2	5712(34,28,6,	0, 0, 0, 0, 0, 0)	60	3200300020
397	5	4	50000	2	2736(31,22,9,	0, 0, 0, 0, 0, 0)	60	2300200010
398	5	4	50000	2	7536(33,26,7,	0, 0, 0, 0, 0, 0)	60	3200200020
399	5	4	50000	2	4896(35,30,5,	0, 0, 0, 0, 0, 0)	60	3200300030
400	5	4	50000	2	2304(32,24,8,	0, 0, 0, 0, 0, 0)	60	2300300010
401	5	4	50000	2	6336(34,28,6,	0, 0, 0, 0, 0, 0)	60	2300300020
402	5	4	50000	2	504(30,20,10,	0, 0, 0, 0, 0, 0)	60	3300100010
403	5	4	50000	2	2736(32,24,8,	0, 0, 0, 0, 0, 0)	60	3300200010
404	5	4	50000	2	1776(33,26,7,	0, 0, 0, 0, 0, 0)	60	3300300010

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COEF	TERM	GRAPH MATRIX
405	5	4	50000	2	3720(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3300200020
406	5	4	50000	2	4944(35,30,	5, 0, 0, 0, 0, 0, 0)	60	3300300020
407	5	4	50000	2	1640(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3300300030
(5,2)								
1	5	6	41000	24	-31104(28,20,	5, 2, 1, 0, 0, 0, 0)	52	3122110000
2	5	6	41000	24	-3456(26,16,	8, 0, 2, 0, 0, 0, 0)	52	1122110000
3	5	6	41000	24	-10368(28,21,	3, 3, 1, 0, 0, 0, 0)	50	2221110000
4	5	6	41000	24	-32256(29,21,	6, 1, 1, 0, 0, 0, 0)	54	2223110000
5	5	6	41000	24	-8064(29,20,	8, 0, 1, 0, 0, 0, 0)	56	1233210000
6	5	6	41000	24	-2880(31,24,	6, 0, 1, 0, 0, 0, 0)	56	2222220000
7	5	5	41000	4	-2592(28,20,	4, 4, 0, 0, 0, 0, 0)	52	2112010000
8	5	5	41000	4	-2592(28,20,	4, 4, 0, 0, 0, 0, 0)	52	1122010000
9	5	5	41000	4	-11520(30,23,	4, 3, 0, 0, 0, 0, 0)	54	3122010000
10	5	5	41000	4	-11520(30,23,	4, 3, 0, 0, 0, 0, 0)	54	2132010000
11	5	5	41000	4	-2880(30,22,	6, 2, 0, 0, 0, 0, 0)	56	3213010000
12	5	5	41000	4	-11904(31,24,	5, 2, 0, 0, 0, 0, 0)	56	2223010000
13	5	5	41000	4	-2880(30,22,	6, 2, 0, 0, 0, 0, 0)	56	1233010000
14	5	5	41000	4	-9216(32,26,	4, 2, 0, 0, 0, 0, 0)	56	3123020000
15	5	5	41000	4	-9312(32,26,	4, 2, 0, 0, 0, 0, 0)	56	2133020000
16	5	5	41000	4	-6096(32,26,	4, 2, 0, 0, 0, 0, 0)	56	2222020000
17	5	4	41000	2	-2592(28,18,	8, 2, 0, 0, 0, 0, 0)	56	2111000000
18	5	4	41000	2	-11376(30,22,	6, 2, 0, 0, 0, 0, 0)	56	2112000000
19	5	4	41000	2	-12096(31,24,	5, 2, 0, 0, 0, 0, 0)	56	2113000000
20	5	4	41000	2	-2880(30,21,	8, 1, 0, 0, 0, 0, 0)	58	3121000000
21	5	4	41000	2	-12480(32,25,	6, 1, 0, 0, 0, 0, 0)	58	3122000000
22	5	4	41000	2	-13104(33,27,	5, 1, 0, 0, 0, 0, 0)	58	3123000000
23	5	4	41000	2	-1440(30,22,	6, 2, 0, 0, 0, 0, 0)	56	1122000000
24	5	4	41000	2	-3072(31,24,	5, 2, 0, 0, 0, 0, 0)	56	1123000000
25	5	4	41000	2	-6336(32,25,	6, 1, 0, 0, 0, 0, 0)	58	2132000000
26	5	4	41000	2	-9888(33,27,	5, 1, 0, 0, 0, 0, 0)	58	2133000000
27	5	4	41000	2	-5760(30,21,	8, 1, 0, 0, 0, 0, 0)	58	3211000000
28	5	4	41000	2	-21696(32,25,	6, 1, 0, 0, 0, 0, 0)	58	3212000000
29	5	4	41000	2	-19440(33,27,	5, 1, 0, 0, 0, 0, 0)	58	3213000000
30	5	4	41000	2	-2976(31,23,	7, 1, 0, 0, 0, 0, 0)	58	2221000000
31	5	4	41000	2	-16032(33,27,	5, 1, 0, 0, 0, 0, 0)	58	2222000000
32	5	4	41000	2	-16752(34,29,	4, 1, 0, 0, 0, 0, 0)	58	2223000000
33	5	4	41000	8	-1512(32,24,	8, 0, 0, 0, 0, 0, 0)	60	2022020000
34	5	4	41000	8	-13248(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3032020000
35	5	4	41000	8	-6720(34,28,	6, 0, 0, 0, 0, 0, 0)	60	2033020000
36	5	4	41000	8	-7056(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3033030000
37	5	4	32000	12	-25056(28,18,	8, 2, 0, 0, 0, 0, 0)	56	2110000001
38	5	4	32000	12	-57744(30,22,	6, 2, 0, 0, 0, 0, 0)	56	2110000002
39	5	4	32000	12	-42048(31,24,	5, 2, 0, 0, 0, 0, 0)	56	2110000003
40	5	4	32000	12	-56736(30,21,	8, 1, 0, 0, 0, 0, 0)	58	3210000001
41	5	4	32000	12	-129024(32,25,	6, 1, 0, 0, 0, 0, 0)	58	3210000002
42	5	4	32000	12	-92448(33,27,	5, 1, 0, 0, 0, 0, 0)	58	3210000003
43	5	4	32000	12	-19584(31,23,	7, 1, 0, 0, 0, 0, 0)	58	2220000001
44	5	4	32000	12	-44352(33,27,	5, 1, 0, 0, 0, 0, 0)	58	2220000002
45	5	4	32000	12	-31968(34,29,	4, 1, 0, 0, 0, 0, 0)	58	2220000003
46	5	3	41000	2	-324(28,16,12,	0, 0, 0, 0, 0, 0, 0)	60	1100010000
47	5	3	41000	2	-2880(30,20,10,	0, 0, 0, 0, 0, 0, 0)	60	2100010000
48	5	3	41000	2	-3072(31,22,	9, 0, 0, 0, 0, 0, 0)	60	3100010000
49	5	3	41000	2	-21888(32,24,	8, 0, 0, 0, 0, 0, 0)	60	2200010000
50	5	3	41000	2	-19776(33,26,	7, 0, 0, 0, 0, 0, 0)	60	3200010000
51	5	3	41000	2	-2880(30,20,10,	0, 0, 0, 0, 0, 0, 0)	60	1200010000
52	5	3	41000	2	-29664(33,26,	7, 0, 0, 0, 0, 0, 0)	60	2300010000
53	5	3	41000	2	-24000(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3300010000
54	5	3	41000	2	-4608(31,22,	9, 0, 0, 0, 0, 0, 0)	60	1300010000
55	5	3	41000	2	-6336(32,24,	8, 0, 0, 0, 0, 0, 0)	60	2100020000
56	5	3	41000	2	-13440(33,26,	7, 0, 0, 0, 0, 0, 0)	60	3100020000
57	5	3	41000	2	-39696(34,28,	6, 0, 0, 0, 0, 0, 0)	60	2200020000
58	5	3	41000	2	-67392(35,30,	5, 0, 0, 0, 0, 0, 0)	60	3200020000
59	5	3	41000	2	-69600(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3300020000
60	5	3	41000	2	-43968(35,30,	5, 0, 0, 0, 0, 0, 0)	60	2300020000
61	5	3	41000	2	-7104(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3100030000
62	5	3	41000	2	-29712(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3200030000
63	5	3	41000	2	-23616(37,34,	3, 0, 0, 0, 0, 0, 0)	64	3300030000
64	5	3	41000	6	-4536(32,24,	8, 0, 0, 0, 0, 0, 0)	60	2201000000
65	5	3	41000	6	-19584(33,26,	7, 0, 0, 0, 0, 0, 0)	60	3201000000
66	5	3	41000	6	-15192(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3301000000
67	5	3	41000	6	-18144(34,28,	6, 0, 0, 0, 0, 0, 0)	60	2202000000
68	5	3	41000	6	-72864(35,30,	5, 0, 0, 0, 0, 0, 0)	60	3202000000
69	5	3	41000	6	-80712(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3302000000
70	5	3	41000	6	-25776(37,34,	3, 0, 0, 0, 0, 0, 0)	64	3303000000
71	5	3	32000	4	-2088(28,16,12,	0, 0, 0, 0, 0, 0, 0)	60	1100000001
72	5	3	32000	4	-4848(30,20,10,	0, 0, 0, 0, 0, 0, 0)	60	1100000002
73	5	3	32000	4	-3552(31,22,	9, 0, 0, 0, 0, 0, 0)	60	1100000003
74	5	3	32000	4	-18912(30,20,10,	0, 0, 0, 0, 0, 0, 0)	60	2100000001
75	5	3	32000	4	-43392(32,24,	8, 0, 0, 0, 0, 0, 0)	60	2100000002
76	5	3	32000	4	-31488(33,26,	7, 0, 0, 0, 0, 0, 0)	60	2100000003
77	5	3	32000	4	-20448(31,22,	9, 0, 0, 0, 0, 0, 0)	60	3100000001
78	5	3	32000	4	-46464(33,26,	7, 0, 0, 0, 0, 0, 0)	60	3100000002
79	5	3	32000	4	-33216(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3100000003
80	5	3	32000	4	-36336(32,24,	8, 0, 0, 0, 0, 0, 0)	60	2200000001
81	5	3	32000	4	-82656(34,28,	6, 0, 0, 0, 0, 0, 0)	60	2200000002
82	5	3	32000	4	-59520(35,30,	5, 0, 0, 0, 0, 0, 0)	60	2200000003
83	5	3	32000	4	-66240(33,26,	7, 0, 0, 0, 0, 0, 0)	60	3200000001
84	5	3	32000	4	-149568(35,30,	5, 0, 0, 0, 0, 0, 0)	60	3200000002
85	5	3	32000	4	-106752(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3200000003
86	5	3	32000	4	-26928(34,28,	6, 0, 0, 0, 0, 0, 0)	60	3300000001
87	5	3	32000	4	-60576(36,32,	4, 0, 0, 0, 0, 0, 0)	62	3300000002
88	5	3	32000	4	-42912(37,34,	3, 0, 0, 0, 0, 0, 0)	64	3300000003
(5,3)								
1	5	3	31100	12	273888(32,26,	4, 2, 0, 0, 0, 0, 0)	56	2110000000
2	5	3	31100	12	660096(34,29,	4, 1, 0, 0, 0, 0, 0)	58	3210000000
3	5	3	31100	12	233280(35,31,	3, 1, 0, 0, 0, 0, 0)	60	2220000000
4	5	2	31100	4	22908(32,24,	8, 0, 0, 0, 0, 0, 0)	60	1100000000
5	5	2	31100	4	221088(34,28,	6, 0, 0, 0, 0, 0, 0)	60	2100000000
6	5	2	31100	4	247968(35,30,	5, 0, 0, 0, 0, 0, 0)	60	3100000000
7	5	2	31100	4	448152(36,32,	4, 0, 0, 0, 0, 0, 0)	62	2200000000
8	5	2	31100	4	843936(37,34,	3, 0, 0, 0, 0, 0, 0)	64	3200000000
9	5	2	31100	4	352416(38,36,	2, 0, 0, 0, 0, 0, 0)	66	3300000000
10	5	2	22100	8	143448(32,24,	8, 0, 0, 0, 0, 0, 0)	60	1000010000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CONF	TFRM	GRAPH MATRIX
	11	5	2	22100	8	708480(34,28, 6, 0, 0, 0, 0, 0, 0)	60	2000010000
	12	5	2	22100	8	861936(36,32, 4, 0, 0, 0, 0, 0, 0)	62	2000020000
	13	5	2	22100	8	537792(35,30, 5, 0, 0, 0, 0, 0, 0)	60	3000010000
	14	5	2	22100	8	1294848(37,34, 3, 0, 0, 0, 0, 0, 0)	64	3000020000
	15	5	2	22100	8	479328(38,36, 2, 0, 0, 0, 0, 0, 0)	66	3000030000
(5,4)	1	5	1	21110	12	-1989216(36,32, 4, 0, 0, 0, 0, 0, 0)	62	1000000000
	2	5	1	21110	12	-5150736(38,36, 2, 0, 0, 0, 0, 0, 0)	66	2000000000
	3	5	1	21110	12	-4019368(39,38, 1, 0, 0, 0, 0, 0, 0)	68	3000000000
(5,5)								
(6,1)	1	5	0	11111	120	33582024(40,40, 0, 0, 0, 0, 0, 0, 0)	70	0000000000
	1	6	15	60000	720	8640(25,12, 7, 4, 1, 0, 1, 0, 0)	52	123212212232111
	2	6	15	60000	720	8640(24,10, 9, 2, 2, 0, 1, 0, 0)	52	213312112222111
	3	6	15	60000	720	2880(25,12, 6, 6, 0, 0, 1, 0, 0)	54	112213231232211
	4	6	14	60000	48	576(26,14, 6, 4, 0, 2, 0, 0, 0)	52	112211122332210
	5	6	14	60000	48	1152(26,14, 6, 4, 0, 2, 0, 0, 0)	52	112211231232210
	6	6	14	60000	48	576(26,14, 6, 4, 0, 2, 0, 0, 0)	52	112211322132210
	7	6	13	60000	12	576(27,14, 8, 3, 1, 1, 0, 0, 0)	56	121123321232100
	8	6	13	60000	12	288(27,15, 6, 4, 1, 1, 0, 0, 0)	54	211132312222100
	9	6	13	60000	12	288(28,15, 9, 2, 1, 1, 0, 0, 0)	58	112213231232200
	10	6	13	60000	12	576(26,13, 8, 2, 2, 1, 0, 0, 0)	54	121123212132100
	11	6	13	60000	12	576(26,14, 6, 3, 2, 1, 0, 0, 0)	52	211312221122100
	12	6	13	60000	12	576(27,14, 9, 1, 2, 1, 0, 0, 0)	56	112122231132200
	13	6	13	60000	12	576(26,13, 8, 2, 2, 1, 0, 0, 0)	54	121212321132100
	14	6	13	60000	12	576(27,14, 8, 3, 1, 1, 0, 0, 0)	56	121123232132100
	15	6	13	60000	12	576(27,15, 6, 4, 1, 1, 0, 0, 0)	54	211223312122100
	16	6	13	60000	12	576(28,15, 9, 2, 1, 1, 0, 0, 0)	58	112322231132200
	17	6	13	60000	12	576(27,14, 8, 3, 1, 1, 0, 0, 0)	56	121232321132100
	18	6	13	60000	12	576(28,16, 7, 3, 1, 1, 0, 0, 0)	56	121232212232100
	19	6	13	60000	12	288(28,17, 5, 4, 1, 1, 0, 0, 0)	54	211223221222100
	20	6	13	60000	12	288(29,17, 8, 2, 1, 1, 0, 0, 0)	58	112322122232200
	21	6	13	60000	16	384(28,18, 4, 2, 4, 0, 0, 0, 0)	52	112213213021022
	22	6	13	60000	16	96(28,16, 8, 0, 4, 0, 0, 0, 0)	56	121123123021033
	23	6	13	60000	16	192(28,18, 4, 2, 4, 0, 0, 0, 0)	52	112122213021032
	24	6	13	60000	16	96(28,20, 0, 4, 4, 0, 0, 0, 0)	52	121212212021022
	25	6	12	60000	48	48(32,24, 0, 8, 0, 0, 0, 0, 0)	60	222202220202222
	26	6	12	60000	4	192(28,16, 7, 2, 3, 0, 0, 0, 0)	56	112213213032010
	27	6	12	60000	4	192(29,17, 8, 1, 3, 0, 0, 0, 0)	58	121123123032020
	28	6	12	60000	4	192(28,17, 5, 3, 3, 0, 0, 0, 0)	54	112213122032010
	29	6	12	60000	4	192(29,18, 6, 2, 3, 0, 0, 0, 0)	56	112213322021020
	30	6	12	60000	4	192(29,17, 8, 1, 3, 0, 0, 0, 0)	58	112213322032010
	31	6	12	60000	4	96(30,18, 9, 0, 3, 0, 0, 0, 0)	60	121123232032020
	32	6	12	60000	4	96(28,16, 7, 2, 3, 0, 0, 0, 0)	56	112213231032010
	33	6	12	60000	4	192(29,18, 6, 2, 3, 0, 0, 0, 0)	56	112122213032020
	34	6	12	60000	4	192(28,17, 5, 3, 3, 0, 0, 0, 0)	54	121212123032010
	35	6	12	60000	4	192(29,19, 4, 3, 3, 0, 0, 0, 0)	54	121212232021020
	36	6	12	60000	4	192(28,18, 3, 4, 3, 0, 0, 0, 0)	54	121212212032010
	37	6	12	60000	4	96(30,19, 7, 1, 3, 0, 0, 0, 0)	58	112122322032020
	38	6	12	60000	4	192(29,18, 6, 2, 3, 0, 0, 0, 0)	56	121212232032010
	39	6	12	60000	4	96(28,17, 5, 3, 3, 0, 0, 0, 0)	54	121212321032010
	40	6	12	60000	4	48(30,22, 0, 6, 2, 0, 0, 0, 0)	56	110122122223300
	41	6	12	60000	4	96(29,18, 2, 6, 2, 0, 0, 0, 0)	56	110233122112200
	42	6	12	60000	4	192(30,20, 4, 4, 2, 0, 0, 0, 0)	56	110233122123300
	43	6	12	60000	4	192(29,18, 5, 4, 2, 0, 0, 0, 0)	56	210223132113200
	44	6	12	60000	4	192(30,19, 6, 3, 2, 0, 0, 0, 0)	58	120123232123200
	45	6	12	60000	4	96(30,18, 8, 2, 2, 0, 0, 0, 0)	60	220133222113300
	46	6	12	60000	4	96(30,18, 8, 2, 2, 0, 0, 0, 0)	60	220133222122200
	47	6	12	60000	12	576(26,13, 7, 4, 1, 1, 0, 0, 0)	54	123212121121000
	48	6	12	60000	12	1152(28,16, 7, 3, 1, 1, 0, 0, 0)	56	123212121132000
	49	6	12	60000	12	576(26,13, 7, 4, 1, 1, 0, 0, 0)	54	132122711121000
	50	6	12	60000	12	1152(28,16, 7, 3, 1, 1, 0, 0, 0)	56	132122211132000
	51	6	12	60000	12	576(29,17, 7, 4, 0, 1, 0, 0, 0)	58	121123232132000
	52	6	12	60000	12	576(29,17, 7, 4, 0, 1, 0, 0, 0)	58	112213322132000
	53	6	12	60000	12	288(28,16, 7, 3, 1, 1, 0, 0, 0)	56	112122231132000
	54	6	12	60000	12	288(28,16, 7, 3, 1, 1, 0, 0, 0)	56	121212321132000
	55	6	12	60000	12	576(27,14, 7, 5, 0, 1, 0, 0, 0)	56	132122231121000
	56	6	12	60000	12	1152(29,17, 7, 4, 0, 1, 0, 0, 0)	58	132122231132000
	57	6	12	60000	12	576(27,14, 7, 5, 0, 1, 0, 0, 0)	56	123212321121000
	58	6	12	60000	12	1152(29,17, 7, 4, 0, 1, 0, 0, 0)	58	123212321132000
	59	6	12	60000	12	576(28,16, 7, 3, 1, 1, 0, 0, 0)	56	121123212132000
	60	6	12	60000	12	576(28,16, 7, 3, 1, 1, 0, 0, 0)	56	112213122132000
	61	6	12	60000	12	288(30,19, 6, 4, 0, 1, 0, 0, 0)	58	132122122232000
	62	6	12	60000	12	288(30,19, 6, 4, 0, 1, 0, 0, 0)	58	123212212232000
	63	6	12	60000	12	576(27,13, 9, 4, 0, 1, 0, 0, 0)	58	213312221131000
	64	6	12	60000	12	576(28,15, 8, 4, 0, 1, 0, 0, 0)	58	213312211222000
	65	6	12	60000	12	288(28,15, 8, 4, 0, 1, 0, 0, 0)	58	222222131131000
	66	6	12	60000	12	576(29,17, 7, 4, 0, 1, 0, 0, 0)	58	222222311122000
	67	6	12	60000	12	288(28,15, 8, 4, 0, 1, 0, 0, 0)	58	222222311131000
	68	6	11	60000	2	24(26,14, 4, 6, 2, 0, 0, 0, 0)	56	112102120221100
	69	6	11	60000	2	48(29,19, 2, 7, 1, 0, 0, 0, 0)	58	112102120232200
	70	6	11	60000	2	96(28,16, 6, 4, 2, 0, 0, 0, 0)	56	112203120321100
	71	6	11	60000	2	192(31,21, 4, 5, 1, 0, 0, 0, 0)	58	112203120332200
	72	6	11	60000	2	96(30,20, 3, 6, 1, 0, 0, 0, 0)	58	112203120323100
	73	6	11	60000	2	48(29,17, 7, 3, 2, 0, 0, 0, 0)	58	112203230221100
	74	6	11	60000	2	96(32,22, 5, 4, 1, 0, 0, 0, 0)	60	112203230232200
	75	6	11	60000	2	48(31,22, 2, 6, 1, 0, 0, 0, 0)	58	112203230212200
	76	6	11	60000	2	96(31,21, 4, 5, 1, 0, 0, 0, 0)	58	112203230231100
	77	6	11	60000	2	96(29,18, 4, 6, 1, 0, 0, 0, 0)	58	213102130222100
	78	6	11	60000	2	96(29,17, 6, 5, 1, 0, 0, 0, 0)	58	123103120232100
	79	6	11	60000	2	192(31,20, 6, 4, 1, 0, 0, 0, 0)	60	213203130322100
	80	6	11	60000	2	144(31,19, 8, 3, 1, 0, 0, 0, 0)	62	123103230332100
	81	6	11	60000	2	96(30,18, 7, 4, 1, 0, 0, 0, 0)	60	123202120332100
	82	6	11	60000	2	96(30,19, 5, 5, 1, 0, 0, 0, 0)	58	213102220322100
	83	6	11	60000	2	96(31,19, 8, 3, 1, 0, 0, 0, 0)	62	123202230232100
	84	6	11	60000	2	96(31,20, 6, 4, 1, 0, 0, 0, 0)	60	213203220222100
	85	6	11	60000	2	48(29,17, 6, 5, 1, 0, 0, 0, 0)	58	222103130231100
	86	6	11	60000	2	48(31,20, 6, 4, 1, 0, 0, 0, 0)	60	222103130222200
	87	6	11	60000	2	96(30,18, 7, 4, 1, 0, 0, 0, 0)	60	222103220331100
	88	6	11	60000	2	96(32,21, 7, 3, 1, 0, 0, 0, 0)	62	222103220322200
	89	6	11	60000	2	48(30,18, 7, 4, 1, 0, 0, 0, 0)	60	222202220231100
	90	6	11	60000	2	48(32,21, 7, 3, 1, 0, 0, 0, 0)	62	222202220222200
	91	6	11	60000	2	48(30,21, 2, 5, 2, 0, 0, 0, 0)	56	112122102232000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TFRM	GRAPH MATRIX
92	6	11	60000	2	96(30,20,4,4,2,0,0,0,0,0)	56	112122203123000	
93	6	11	60000	2	96(30,20,4,4,2,0,0,0,0,0)	56	112122203132000	
94	6	11	60000	2	48(31,21,5,3,2,0,0,0,0,0)	58	112122302223000	
95	6	11	60000	2	48(31,21,5,3,2,0,0,0,0,0)	58	112122302232000	
96	6	11	60000	2	96(28,16,6,4,2,0,0,0,0,0)	56	123121103221000	
97	6	11	60000	2	192(30,19,6,3,2,0,0,0,0,0)	58	123121103232000	
98	6	11	60000	2	96(28,17,4,5,2,0,0,0,0,0)	56	123121202112000	
99	6	11	60000	2	192(30,20,4,4,2,0,0,0,0,0)	56	123121202123000	
100	6	11	60000	2	96(28,17,4,5,2,0,0,0,0,0)	56	123121202121000	
101	6	11	60000	2	192(30,20,4,4,2,0,0,0,0,0)	56	123121202132000	
102	6	11	60000	2	96(31,20,7,2,2,0,0,0,0,0)	60	112231203223000	
103	6	11	60000	2	96(29,17,7,3,2,0,0,0,0,0)	58	112231203221000	
104	6	11	60000	2	192(31,20,7,2,2,0,0,0,0,0)	60	112231203232000	
105	6	11	60000	2	96(28,16,6,4,2,0,0,0,0,0)	56	112231302112000	
106	6	11	60000	2	192(30,19,6,3,2,0,0,0,0,0)	58	112231302123000	
107	6	11	60000	2	96(28,16,6,4,2,0,0,0,0,0)	56	112231302121000	
108	6	11	60000	2	192(30,19,6,3,2,0,0,0,0,0)	58	112231302132000	
109	6	11	60000	2	96(30,18,8,2,2,0,0,0,0,0)	60	222131103222000	
110	6	11	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	222131103231000	
111	6	11	60000	2	96(29,17,7,3,2,0,0,0,0,0)	58	222131202113000	
112	6	11	60000	2	192(30,19,6,3,2,0,0,0,0,0)	58	222131202122000	
113	6	11	60000	2	96(29,17,7,3,2,0,0,0,0,0)	58	222131202131000	
114	6	11	60000	2	96(31,19,9,1,2,0,0,0,0,0)	62	213221203222000	
115	6	11	60000	2	96(30,17,10,1,2,0,0,0,0,0)	62	213221203231000	
116	6	11	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	213221302113000	
117	6	11	60000	2	192(30,18,8,2,2,0,0,0,0,0)	60	213221302122000	
118	6	11	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	213221302131000	
119	6	11	60000	8	192(32,20,9,2,1,0,0,0,0,0)	64	132231320000323	
120	6	11	60000	8	192(31,18,10,2,1,0,0,0,0,0)	64	123321320000322	
121	6	11	60000	4	96(32,22,4,6,0,0,0,0,0,0)	60	222301220002232	
122	6	11	60000	4	48(32,22,4,6,0,0,0,0,0,0)	60	222301310002233	
123	6	11	60000	24	576(28,15,9,2,1,1,0,0,0,0)	58	312122211120000	
124	6	11	60000	24	1152(29,17,8,2,1,1,0,0,0,0)	58	312122211130000	
125	6	11	60000	24	1152(29,16,9,3,0,1,0,0,0,0)	60	132122231120000	
126	6	11	60000	24	2304(30,18,8,3,0,1,0,0,0,0)	60	132122231130000	
127	6	11	60000	24	576(26,11,11,2,1,1,0,0,0,0)	58	321212121110000	
128	6	11	60000	24	2304(28,15,9,2,1,1,0,0,0,0)	58	321212121120000	
129	6	11	60000	24	2304(29,17,8,2,1,1,0,0,0,0)	58	321212121130000	
130	6	11	60000	24	2304(29,16,9,3,0,1,0,0,0,0)	60	213312221120000	
131	6	11	60000	24	3456(30,18,8,3,0,1,0,0,0,0)	60	213312221130000	
132	6	11	60000	24	576(29,17,8,2,1,1,0,0,0,0)	58	112122231130000	
133	6	11	60000	24	1152(28,15,9,2,1,1,0,0,0,0)	58	123212121120000	
134	6	11	60000	24	2304(29,17,8,2,1,1,0,0,0,0)	58	123212121130000	
135	6	11	60000	24	576(29,16,9,3,0,1,0,0,0,0)	60	211223132120000	
136	6	11	60000	24	1152(30,18,8,3,0,1,0,0,0,0)	60	211223132130000	
137	6	11	60000	24	1152(30,18,8,3,0,1,0,0,0,0)	60	222222131120000	
138	6	11	60000	24	1728(31,20,7,3,0,1,0,0,0,0)	60	222222131130000	
139	6	11	60000	24	192(31,20,7,3,0,1,0,0,0,0)	60	312122122230000	
140	6	11	60000	24	576(30,18,8,3,0,1,0,0,0,0)	60	222222311120000	
141	6	11	60000	24	768(31,20,7,3,0,1,0,0,0,0)	60	222222311130000	
142	6	11	60000	12	144(32,20,10,0,2,0,0,0,0,0)	64	321212300003223	
143	6	11	60000	4	192(30,19,6,3,2,0,0,0,0,0)	58	112213231032000	
144	6	11	60000	4	192(30,19,6,3,2,0,0,0,0,0)	58	121123321032000	
145	6	11	60000	4	192(30,20,4,4,2,0,0,0,0,0)	56	112122231032000	
146	6	11	60000	4	192(30,20,4,4,2,0,0,0,0,0)	56	121212321032000	
147	6	11	60000	4	192(29,17,7,3,2,0,0,0,0,0)	58	112322231021000	
148	6	11	60000	4	384(31,20,7,2,2,0,0,0,0,0)	60	112322231032000	
149	6	11	60000	4	192(29,17,7,3,2,0,0,0,0,0)	58	121232321021000	
150	6	11	60000	4	384(31,20,7,2,2,0,0,0,0,0)	60	121232321032000	
151	6	11	60000	4	96(28,16,6,4,2,0,0,0,0,0)	56	112231231021000	
152	6	11	60000	4	192(30,19,6,3,2,0,0,0,0,0)	58	112231231032000	
153	6	11	60000	4	96(28,16,6,4,2,0,0,0,0,0)	56	121321321021000	
154	6	11	60000	4	192(30,19,6,3,2,0,0,0,0,0)	58	121321321032000	
155	6	11	60000	4	192(31,20,7,2,2,0,0,0,0,0)	60	112213322032000	
156	6	11	60000	4	192(31,20,7,2,2,0,0,0,0,0)	60	121123232032000	
157	6	11	60000	4	192(31,21,5,3,2,0,0,0,0,0)	58	112322122032000	
158	6	11	60000	4	192(31,21,5,3,2,0,0,0,0,0)	58	121232212032000	
159	6	11	60000	4	96(30,18,8,2,2,0,0,0,0,0)	60	112322322021000	
160	6	11	60000	4	192(32,21,8,1,2,0,0,0,0,0)	62	112322322032000	
161	6	11	60000	4	96(30,18,8,2,2,0,0,0,0,0)	60	121232232021000	
162	6	11	60000	4	192(32,21,8,1,2,0,0,0,0,0)	62	121232232032000	
163	6	11	60000	12	144(32,24,0,8,0,0,0,0,0,0)	60	110233233012200	
164	6	11	60000	12	144(34,26,2,6,0,0,0,0,0,0)	60	110233233023300	
165	6	11	60000	16	768(28,16,6,4,2,0,0,0,0,0)	56	123121320021001	
166	6	11	60000	16	768(26,12,9,2,3,0,0,0,0,0)	56	132211120021001	
167	6	11	60000	16	1536(29,17,7,3,2,0,0,0,0,0)	58	132122320021001	
168	6	11	60000	16	1536(29,17,7,3,2,0,0,0,0,0)	58	123212320021001	
169	6	11	60000	16	1536(29,16,9,2,2,0,0,0,0,0)	60	123321320021001	
170	6	11	60000	16	768(29,16,6,4,2,0,0,0,0,0)	56	132211320021001	
171	6	11	60000	16	96(24,8,12,0,4,0,0,0,0,0)	56	112211120021001	
172	6	11	60000	16	768(27,13,10,1,3,0,0,0,0,0)	58	123212120021001	
173	6	11	60000	16	384(27,12,12,0,3,0,0,0,0,0)	60	123321120021001	
174	6	11	60000	16	384(29,16,9,2,2,0,0,0,0,0)	60	112213230032001	
175	6	11	60000	16	384(29,17,7,3,2,0,0,0,0,0)	58	121212230032001	
176	6	11	60000	16	768(30,18,8,2,2,0,0,0,0,0)	60	132122230021002	
177	6	11	60000	16	768(30,18,8,2,2,0,0,0,0,0)	60	123212230021002	
178	6	11	60000	16	1536(30,17,10,1,2,0,0,0,0,0)	62	123212230032001	
179	6	11	60000	16	288(30,16,12,0,2,0,0,0,0,0)	64	123321230032001	
180	6	11	60000	16	768(28,13,12,1,2,0,0,0,0,0)	62	213312220031001	
181	6	11	60000	16	96(28,12,14,0,2,0,0,0,0,0)	64	213312130031002	
182	6	11	60000	16	192(30,16,12,0,2,0,0,0,0,0)	64	222222130031002	
183	6	11	60000	16	768(28,14,10,2,2,0,0,0,0,0)	60	213221220031001	
184	6	11	60000	16	768(30,17,10,1,2,0,0,0,0,0)	62	222222220031001	
185	6	11	60000	16	768(28,14,10,2,2,0,0,0,0,0)	60	222311220031001	
186	6	11	60000	16	96(32,20,10,0,2,0,0,0,0,0)	64	222222220022002	
187	6	10	60000	8	768(30,19,5,5,1,0,0,0,0,0)	58	121321320000210	
188	6	10	60000	8	768(30,19,5,5,1,0,0,0,0,0)	58	112231320000210	
189	6	10	60000	8	384(28,16,5,6,1,0,0,0,0,0)	58	123121210000210	
190	6	10	60000	8	192(28,16,5,6,1,0,0,0,0,0)	58	112231210000210	
191	6	10	60000	8	1536(32,22,5,4,1,0,0,0,0,0)	60	123121320000320	
192	6	10	60000	8	768(32,22,5,4,1,0,0,0,0,0)	60	112231320000320	
193	6	10	60000	8	768(30,19,5,5,1,0,0,0,0,0)	58	123121320000210	
194	6	10	60000	8	768(30,19,5,5,1,0,0,0,0,0)	58	132211320000210	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
195	6	10	60000	8	192(28,16,5,6,1,0,0,0,0,0)	58	132211210000210	
196	6	10	60000	8	768(32,22,5,4,1,0,0,0,0,0)	60	132211320000320	
197	6	10	60000	8	96(26,12,8,4,2,0,0,0,0,0)	56	121121210000210	
198	6	10	60000	8	384(28,15,8,3,2,0,0,0,0,0)	58	121121320000210	
199	6	10	60000	8	96(26,12,8,4,2,0,0,0,0,0)	56	112211210000210	
200	6	10	60000	8	384(28,15,8,3,2,0,0,0,0,0)	58	112211320000210	
201	6	10	60000	8	384(30,18,8,2,2,0,0,0,0,0)	60	121121320000320	
202	6	10	60000	8	384(30,18,8,2,2,0,0,0,0,0)	60	112211320000320	
203	6	10	60000	8	384(29,16,8,4,1,0,0,0,0,0)	60	231221310000210	
204	6	10	60000	8	768(30,18,7,4,1,0,0,0,0,0)	60	231221220000210	
205	6	10	60000	8	384(29,16,8,4,1,0,0,0,0,0)	60	213221310000210	
206	6	10	60000	8	768(31,19,8,3,1,0,0,0,0,0)	62	132122320000310	
207	6	10	60000	8	1536(32,21,7,3,1,0,0,0,0,0)	62	132122320000220	
208	6	10	60000	8	768(31,19,8,3,1,0,0,0,0,0)	62	112322320000310	
209	6	10	60000	8	384(29,16,8,4,1,0,0,0,0,0)	60	222311310000210	
210	6	10	60000	8	768(30,18,7,4,1,0,0,0,0,0)	60	222311220000210	
211	6	10	60000	8	384(29,16,8,4,1,0,0,0,0,0)	60	222131310000210	
212	6	10	60000	8	768(31,19,8,3,1,0,0,0,0,0)	62	123212320000310	
213	6	10	60000	8	1536(32,21,7,3,1,0,0,0,0,0)	62	123212320000220	
214	6	10	60000	8	768(31,19,8,3,1,0,0,0,0,0)	62	121232320000310	
215	6	10	60000	8	384(29,16,8,4,1,0,0,0,0,0)	60	132231210000210	
216	6	10	60000	8	1152(31,19,8,3,1,0,0,0,0,0)	62	132231320000210	
217	6	10	60000	8	384(29,16,8,4,1,0,0,0,0,0)	60	123321210000210	
218	6	10	60000	8	1152(31,19,8,3,1,0,0,0,0,0)	62	123321320000210	
219	6	10	60000	8	672(33,22,8,2,1,0,0,0,0,0)	64	132231320000320	
220	6	10	60000	8	672(33,22,8,2,1,0,0,0,0,0)	64	123321320000320	
221	6	10	60000	8	96(29,14,12,2,1,0,0,0,0,0)	64	231132310000310	
222	6	10	60000	8	384(30,16,11,2,1,0,0,0,0,0)	64	213312220000310	
223	6	10	60000	8	96(29,14,12,2,1,0,0,0,0,0)	64	213312310000310	
224	6	10	60000	8	192(31,18,10,2,1,0,0,0,0,0)	64	213312220000220	
225	6	10	60000	8	192(31,18,10,2,1,0,0,0,0,0)	64	222222310000310	
226	6	10	60000	8	384(32,20,9,2,1,0,0,0,0,0)	64	222222220000310	
227	6	10	60000	8	192(33,22,8,2,1,0,0,0,0,0)	64	222222220000220	
228	6	10	60000	2	96(30,17,9,3,1,0,0,0,0,0)	62	3211210320200002	
229	6	10	60000	2	192(32,21,7,3,1,0,0,0,0,0)	62	321121032030003	
230	6	10	60000	2	96(31,19,8,3,1,0,0,0,0,0)	62	231112032020003	
231	6	10	60000	2	96(31,19,8,3,1,0,0,0,0,0)	62	231112032030002	
232	6	10	60000	2	96(33,21,10,1,1,0,0,0,0,0)	66	321123032030003	
233	6	10	60000	2	96(31,18,10,2,1,0,0,0,0,0)	64	321212032020002	
234	6	10	60000	2	192(33,22,8,2,1,0,0,0,0,0)	64	321212032030003	
235	6	10	60000	2	96(32,20,9,2,1,0,0,0,0,0)	64	231221032020003	
236	6	10	60000	2	96(32,20,9,2,1,0,0,0,0,0)	64	231221032030002	
237	6	10	60000	2	96(32,20,9,2,1,0,0,0,0,0)	64	222131022030003	
238	6	10	60000	2	48(34,23,9,1,1,0,0,0,0,0)	66	222222022030003	
239	6	10	60000	2	96(33,23,5,5,0,0,0,0,0,0)	62	222310022320200	
240	6	10	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	222220013330100	
241	6	10	60000	2	48(33,23,5,5,0,0,0,0,0,0)	62	222220022220200	
242	6	10	60000	2	96(31,20,5,6,0,0,0,0,0,0)	60	222310013230100	
243	6	10	60000	2	96(32,22,4,6,0,0,0,0,0,0)	60	222310013220200	
244	6	10	60000	2	96(33,22,7,4,0,0,0,0,0,0)	64	123202320000223	
245	6	10	60000	2	48(32,20,8,4,0,0,0,0,0,0)	64	123301230000222	
246	6	10	60000	2	96(33,22,7,4,0,0,0,0,0,0)	64	123301230000323	
247	6	10	60000	10	240(32,22,4,6,0,0,0,0,0,0)	60	112230203020022	
248	6	10	60000	10	240(33,23,5,5,0,0,0,0,0,0)	62	123230202020022	
249	6	10	60000	2	96(28,16,5,6,1,0,0,0,0,0)	58	132120211010020	
250	6	10	60000	2	192(30,19,5,5,1,0,0,0,0,0)	58	132120211020030	
251	6	10	60000	2	96(28,16,5,6,1,0,0,0,0,0)	58	132120211020010	
252	6	10	60000	2	192(30,19,5,5,1,0,0,0,0,0)	58	132120211030020	
253	6	10	60000	2	48(26,12,8,4,2,0,0,0,0,0)	56	112120211020010	
254	6	10	60000	2	96(28,15,8,3,2,0,0,0,0,0)	58	112120211030020	
255	6	10	60000	2	96(29,17,6,5,1,0,0,0,0,0)	58	123120212020010	
256	6	10	60000	2	96(31,20,6,4,1,0,0,0,0,0)	60	123120212020030	
257	6	10	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	123120212030020	
258	6	10	60000	2	192(30,18,7,4,1,0,0,0,0,0)	60	132230211010030	
259	6	10	60000	2	384(31,20,6,4,1,0,0,0,0,0)	60	132230211020020	
260	6	10	60000	2	192(30,18,7,4,1,0,0,0,0,0)	60	132230211030010	
261	6	10	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	112230211020020	
262	6	10	60000	2	96(28,14,10,2,2,0,0,0,0,0)	60	112230211030010	
263	6	10	60000	2	96(31,20,6,4,1,0,0,0,0,0)	60	112230213020020	
264	6	10	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	112230213030010	
265	6	10	60000	2	288(32,21,7,3,1,0,0,0,0,0)	62	123230212020020	
266	6	10	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	123230212030010	
267	6	10	60000	2	48(30,19,5,5,1,0,0,0,0,0)	58	121230212010030	
268	6	10	60000	2	96(31,21,4,5,1,0,0,0,0,0)	58	121230212020020	
269	6	10	60000	2	48(30,19,5,5,1,0,0,0,0,0)	58	121230212030010	
270	6	10	60000	2	96(29,17,6,5,1,0,0,0,0,0)	58	132120122020010	
271	6	10	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	132120122030020	
272	6	10	60000	2	96(29,16,8,4,1,0,0,0,0,0)	60	123120321020010	
273	6	10	60000	2	96(31,19,8,3,1,0,0,0,0,0)	62	123120321020030	
274	6	10	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	123120321030020	
275	6	10	60000	2	192(32,21,7,3,1,0,0,0,0,0)	62	132230122020020	
276	6	10	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	132230122030010	
277	6	10	60000	2	192(32,20,9,2,1,0,0,0,0,0)	64	123230321020020	
278	6	10	60000	2	144(31,18,10,2,1,0,0,0,0,0)	64	123230321030010	
279	6	10	60000	2	96(28,16,5,6,1,0,0,0,0,0)	58	123120121020010	
280	6	10	60000	2	192(30,19,5,5,1,0,0,0,0,0)	58	123120121030020	
281	6	10	60000	2	48(20,19,5,5,1,0,0,0,0,0)	58	112230122030010	
282	6	10	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	123230121020020	
283	6	10	60000	2	192(30,18,7,4,1,0,0,0,0,0)	60	123230121030010	
284	6	10	60000	2	96(29,15,10,3,1,0,0,0,0,0)	62	213130312020010	
285	6	10	60000	2	144(31,18,10,2,1,0,0,0,0,0)	64	213130312030020	
286	6	10	60000	2	96(29,16,8,4,1,0,0,0,0,0)	60	222130311010020	
287	6	10	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	222130311020030	
288	6	10	60000	2	192(29,16,8,4,1,0,0,0,0,0)	60	222130311020010	
289	6	10	60000	2	288(31,19,8,3,1,0,0,0,0,0)	62	222130311030020	
290	6	10	60000	2	96(31,18,10,2,1,0,0,0,0,0)	64	213220312020020	
291	6	10	60000	2	96(30,16,11,2,1,0,0,0,0,0)	64	213220312030010	
292	6	10	60000	2	288(31,19,8,3,1,0,0,0,0,0)	62	222220311020020	
293	6	10	60000	2	192(30,17,9,3,1,0,0,0,0,0)	62	222220311030010	
294	6	10	60000	2	96(30,17,9,3,1,0,0,0,0,0)	62	222220311010030	
295	6	10	60000	2	192(29,16,8,4,1,0,0,0,0,0)	60	213130221020010	
296	6	10	60000	2	288(31,19,8,3,1,0,0,0,0,0)	62	213130221030020	
297	6	10	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	213220221020020	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
298	6	10	60000	2	192(30,17,	9, 3, 1, 0, 0, 0, 0)	62	213270221030010
299	6	10	60000	2	48(33,22,	8, 2, 1, 0, 0, 0, 0)	64	222130727020030
300	6	10	60000	2	96(31,19,	8, 3, 1, 0, 0, 0, 0)	62	2221307220200010
301	6	10	60000	2	144(33,22,	8, 2, 1, 0, 0, 0, 0)	64	222130227030020
302	6	10	60000	2	96(33,22,	8, 2, 1, 0, 0, 0, 0)	64	227220227020020
303	6	10	60000	2	96(32,20,	9, 2, 1, 0, 0, 0, 0)	64	222220227030010
304	6	10	60000	2	48(26,12,	8, 4, 2, 0, 0, 0, 0)	56	112211102021000
305	6	10	60000	2	96(28,15,	8, 3, 2, 0, 0, 0, 0)	58	112211302012000
306	6	10	60000	2	96(28,15,	8, 3, 2, 0, 0, 0, 0)	58	112211203021000
307	6	10	60000	2	24(26,12,	8, 4, 2, 0, 0, 0, 0)	56	112211201021000
308	6	10	60000	2	96(28,15,	8, 3, 2, 0, 0, 0, 0)	58	112211302021000
309	6	10	60000	2	48(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112211203023000
310	6	10	60000	2	192(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112211203032000
311	6	10	60000	2	96(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112211302032000
312	6	10	60000	2	96(29,17,	6, 5, 1, 0, 0, 0, 0)	58	112322102021000
313	6	10	60000	2	192(31,20,	6, 4, 1, 0, 0, 0, 0)	60	112322302012000
314	6	10	60000	2	192(31,20,	6, 4, 1, 0, 0, 0, 0)	60	112322203021000
315	6	10	60000	2	48(29,17,	6, 5, 1, 0, 0, 0, 0)	58	112322201021000
316	6	10	60000	2	192(31,20,	6, 4, 1, 0, 0, 0, 0)	60	112322302021000
317	6	10	60000	2	96(33,23,	6, 3, 1, 0, 0, 0, 0)	62	112322203023000
318	6	10	60000	2	384(33,23,	6, 3, 1, 0, 0, 0, 0)	62	112322203032000
319	6	10	60000	2	192(33,23,	6, 3, 1, 0, 0, 0, 0)	62	112322302032000
320	6	10	60000	2	96(32,23,	3, 5, 1, 0, 0, 0, 0)	58	112122703032000
321	6	10	60000	2	48(32,23,	3, 5, 1, 0, 0, 0, 0)	58	112122702032000
322	6	10	60000	2	96(30,19,	5, 5, 1, 0, 0, 0, 0)	58	112231302012000
323	6	10	60000	2	96(30,19,	5, 5, 1, 0, 0, 0, 0)	58	112231203021000
324	6	10	60000	2	96(30,19,	5, 5, 1, 0, 0, 0, 0)	58	112231302021000
325	6	10	60000	2	96(32,22,	5, 4, 1, 0, 0, 0, 0)	60	112231203023000
326	6	10	60000	2	192(32,22,	5, 4, 1, 0, 0, 0, 0)	60	112213203032000
327	6	10	60000	2	192(32,22,	5, 4, 1, 0, 0, 0, 0)	60	112231203032000
328	6	10	60000	2	192(32,22,	5, 4, 1, 0, 0, 0, 0)	60	112231302032000
329	6	10	60000	2	96(29,16,	8, 4, 1, 0, 0, 0, 0)	60	123212103021000
330	6	10	60000	2	192(31,19,	8, 3, 1, 0, 0, 0, 0)	62	123212103032000
331	6	10	60000	2	96(30,18,	7, 4, 1, 0, 0, 0, 0)	60	123212202012000
332	6	10	60000	2	288(32,21,	7, 3, 1, 0, 0, 0, 0)	62	213221203022000
333	6	10	60000	2	192(30,18,	7, 4, 1, 0, 0, 0, 0)	60	123212202012000
334	6	10	60000	2	384(32,21,	7, 3, 1, 0, 0, 0, 0)	62	213221302022000
335	6	10	60000	2	96(29,16,	8, 4, 1, 0, 0, 0, 0)	60	213221102031000
336	6	10	60000	2	192(31,19,	8, 3, 1, 0, 0, 0, 0)	62	213221203031000
337	6	10	60000	2	96(29,16,	8, 4, 1, 0, 0, 0, 0)	60	123212301021000
338	6	10	60000	2	192(31,19,	8, 3, 1, 0, 0, 0, 0)	62	213221302031000
339	6	10	60000	2	96(29,15,	10, 3, 1, 0, 0, 0, 0)	62	123321103021000
340	6	10	60000	2	144(31,18,	10, 2, 1, 0, 0, 0, 0)	64	123321103032000
341	6	10	60000	2	96(30,17,	9, 3, 1, 0, 0, 0, 0)	62	123321202012000
342	6	10	60000	2	192(32,20,	9, 2, 1, 0, 0, 0, 0)	64	213312203022000
343	6	10	60000	2	192(30,17,	9, 3, 1, 0, 0, 0, 0)	62	123321202021000
344	6	10	60000	2	288(32,20,	9, 2, 1, 0, 0, 0, 0)	64	213312302022000
345	6	10	60000	2	96(29,15,	10, 3, 1, 0, 0, 0, 0)	62	213312102031000
346	6	10	60000	2	144(31,18,	10, 2, 1, 0, 0, 0, 0)	64	213312203031000
347	6	10	60000	2	96(29,15,	10, 3, 1, 0, 0, 0, 0)	62	123321301021000
348	6	10	60000	2	144(31,18,	10, 2, 1, 0, 0, 0, 0)	64	213312302031000
349	6	10	60000	2	96(30,17,	9, 3, 1, 0, 0, 0, 0)	62	222311103022000
350	6	10	60000	2	96(29,15,	10, 3, 1, 0, 0, 0, 0)	62	222311103031000
351	6	10	60000	2	144(31,19,	8, 3, 1, 0, 0, 0, 0)	62	222311202022000
352	6	10	60000	2	192(30,17,	9, 3, 1, 0, 0, 0, 0)	62	222311202031000
353	6	10	60000	2	48(29,15,	10, 3, 1, 0, 0, 0, 0)	62	222311301031000
354	6	10	60000	2	96(32,20,	9, 2, 1, 0, 0, 0, 0)	64	222222103022000
355	6	10	60000	2	96(31,18,	10, 2, 1, 0, 0, 0, 0)	64	222222103031000
356	6	10	60000	2	144(33,22,	8, 2, 1, 0, 0, 0, 0)	64	222222202022000
357	6	10	60000	2	192(32,20,	9, 2, 1, 0, 0, 0, 0)	64	222222203031000
358	6	10	60000	2	48(31,18,	10, 2, 1, 0, 0, 0, 0)	64	222222301031000
359	6	10	60000	4	192(30,18,	8, 2, 2, 0, 0, 0, 0)	60	121123321020000
360	6	10	60000	4	384(31,20,	7, 2, 2, 0, 0, 0, 0)	60	121123321030000
361	6	10	60000	4	192(28,15,	8, 3, 2, 0, 0, 0, 0)	58	211312221010000
362	6	10	60000	4	768(30,19,	6, 3, 2, 0, 0, 0, 0)	58	211312221020000
363	6	10	60000	4	768(31,21,	5, 3, 2, 0, 0, 0, 0)	58	211312221030000
364	6	10	60000	4	384(31,19,	9, 1, 2, 0, 0, 0, 0)	62	121232321020000
365	6	10	60000	4	576(32,21,	8, 1, 2, 0, 0, 0, 0)	62	121232321030000
366	6	10	60000	4	96(28,14,	10, 2, 2, 0, 0, 0, 0)	60	121321321010000
367	6	10	60000	4	384(30,18,	8, 2, 2, 0, 0, 0, 0)	60	121321321020000
368	6	10	60000	4	384(31,20,	7, 2, 2, 0, 0, 0, 0)	60	121321321030000
369	6	10	60000	4	192(30,19,	6, 3, 2, 0, 0, 0, 0)	58	211132221020000
370	6	10	60000	4	384(31,21,	5, 3, 2, 0, 0, 0, 0)	58	211132221030000
371	6	10	60000	4	192(32,21,	8, 1, 2, 0, 0, 0, 0)	62	211223132030000
372	6	10	60000	4	96(28,16,	6, 4, 2, 0, 0, 0, 0)	56	211221221010000
373	6	10	60000	4	384(30,20,	4, 4, 2, 0, 0, 0, 0)	56	211221221020000
374	6	10	60000	4	384(31,22,	3, 4, 2, 0, 0, 0, 0)	56	211221221030000
375	6	10	60000	4	384(31,20,	7, 2, 2, 0, 0, 0, 0)	60	211223221020000
376	6	10	60000	4	576(32,22,	6, 2, 2, 0, 0, 0, 0)	60	211223221030000
377	6	10	60000	4	96(32,20,	10, 0, 2, 0, 0, 0, 0)	64	121232323020000
378	6	10	60000	4	192(33,22,	9, 0, 2, 0, 0, 0, 0)	64	121232323030000
379	6	10	60000	4	96(32,22,	6, 2, 2, 0, 0, 0, 0)	60	112322122030000
380	6	10	60000	4	192(31,19,	9, 1, 2, 0, 0, 0, 0)	62	112322231020000
381	6	10	60000	4	384(32,21,	8, 1, 2, 0, 0, 0, 0)	62	112322231030000
382	6	10	60000	4	48(32,20,	10, 0, 2, 0, 0, 0, 0)	64	112322322020000
383	6	10	60000	4	96(33,22,	9, 0, 2, 0, 0, 0, 0)	64	112322322030000
384	6	10	60000	4	192(31,21,	5, 3, 2, 0, 0, 0, 0)	58	112122231030000
385	6	10	60000	4	96(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112231231020000
386	6	10	60000	4	192(31,20,	7, 2, 2, 0, 0, 0, 0)	60	112231231030000
387	6	10	60000	4	96(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112213231020000
388	6	10	60000	4	192(31,20,	7, 2, 2, 0, 0, 0, 0)	60	112213231030000
389	6	10	60000	2	96(32,23,	2, 7, 0, 0, 0, 0, 0)	60	123120103232000
390	6	10	60000	2	96(33,24,	3, 6, 0, 0, 0, 0, 0)	60	112230203223000
391	6	10	60000	2	96(33,24,	3, 6, 0, 0, 0, 0, 0)	60	112230203232000
392	6	10	60000	2	48(32,22,	4, 6, 0, 0, 0, 0, 0)	60	123230103321000
393	6	10	60000	2	144(34,25,	4, 5, 0, 0, 0, 0, 0)	62	123230103332000
394	6	10	60000	2	48(32,22,	4, 6, 0, 0, 0, 0, 0)	60	123230202210000
395	6	10	60000	2	96(34,25,	4, 5, 0, 0, 0, 0, 0)	62	123230202220000
396	6	10	60000	2	48(32,22,	4, 6, 0, 0, 0, 0, 0)	60	123230202230000
397	6	10	60000	2	96(34,25,	4, 5, 0, 0, 0, 0, 0)	62	123230202240000
398	6	10	60000	8	384(32,22,	5, 4, 1, 0, 0, 0, 0)	60	123121320032000
399	6	10	60000	8	768(32,22,	5, 4, 1, 0, 0, 0, 0)	60	132211230032000
400	6	10	60000	8	384(32,22,	5, 4, 1, 0, 0, 0, 0)	60	132211320032000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TFRM	GRAPH MATRIX
401	6	10	60000	8	192(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112211320032000
402	6	10	60000	8	192(30,18,	8, 2, 2, 0, 0, 0, 0)	60	112711230032000
403	6	10	60000	8	384(33,23,	6, 3, 1, 0, 0, 0, 0)	62	132122320032000
404	6	10	60000	8	768(33,23,	6, 3, 1, 0, 0, 0, 0)	62	123212230032000
405	6	10	60000	8	384(33,23,	6, 3, 1, 0, 0, 0, 0)	62	123212320032000
406	6	10	60000	8	384(31,19,	8, 3, 1, 0, 0, 0, 0)	62	123321320021000
407	6	10	60000	8	384(31,19,	8, 3, 1, 0, 0, 0, 0)	62	123321230021000
408	6	10	60000	8	576(33,22,	8, 2, 1, 0, 0, 0, 0)	64	123321320032000
409	6	10	60000	8	576(33,22,	8, 2, 1, 0, 0, 0, 0)	64	123321230032000
410	6	10	60000	16	384(32,20,	8, 4, 0, 0, 0, 0, 0)	64	321300200103232
411	6	10	60000	16	192(32,20,	8, 4, 0, 0, 0, 0, 0)	64	231200300103232
412	6	10	60000	4	96(34,24,	6, 4, 0, 0, 0, 0, 0)	64	231220300002323
413	6	10	60000	4	48(32,20,	8, 4, 0, 0, 0, 0, 0)	64	231310200002332
414	6	10	60000	4	96(34,24,	6, 4, 0, 0, 0, 0, 0)	64	231310300002333
415	6	10	60000	6	288(28,14,	10, 2, 2, 0, 0, 0, 0)	60	321121032110000
416	6	10	60000	6	1152(30,18,	8, 2, 2, 0, 0, 0, 0)	60	321121032120000
417	6	10	60000	6	1152(31,20,	7, 2, 2, 0, 0, 0, 0)	60	321121032130000
418	6	10	60000	6	288(28,15,	8, 3, 2, 0, 0, 0, 0)	58	312211022110000
419	6	10	60000	6	1152(30,19,	6, 3, 2, 0, 0, 0, 0)	58	312211022120000
420	6	10	60000	6	1152(31,21,	5, 3, 2, 0, 0, 0, 0)	58	312211022130000
421	6	10	60000	6	288(28,14,	10, 2, 2, 0, 0, 0, 0)	60	121321032110000
422	6	10	60000	6	1152(30,18,	8, 2, 2, 0, 0, 0, 0)	60	121321032120000
423	6	10	60000	6	1152(31,20,	7, 2, 2, 0, 0, 0, 0)	60	121321032130000
424	6	10	60000	6	288(29,15,	11, 1, 2, 0, 0, 0, 0)	62	231112032210000
425	6	10	60000	6	1152(31,19,	9, 1, 2, 0, 0, 0, 0)	62	231112032220000
426	6	10	60000	6	1152(32,21,	8, 1, 2, 0, 0, 0, 0)	62	231112032230000
427	6	10	60000	6	144(28,16,	6, 4, 2, 0, 0, 0, 0)	56	222111022110000
428	6	10	60000	6	576(30,20,	4, 4, 2, 0, 0, 0, 0)	56	222111022120000
429	6	10	60000	6	576(31,22,	3, 4, 2, 0, 0, 0, 0)	56	222111022130000
430	6	10	60000	6	288(28,15,	8, 3, 2, 0, 0, 0, 0)	58	211221032110000
431	6	10	60000	6	1152(30,19,	6, 3, 2, 0, 0, 0, 0)	58	211221032120000
432	6	10	60000	6	1152(31,21,	5, 3, 2, 0, 0, 0, 0)	58	211221032130000
433	6	10	60000	6	144(29,16,	9, 2, 2, 0, 0, 0, 0)	60	121212032210000
434	6	10	60000	6	576(31,20,	7, 2, 2, 0, 0, 0, 0)	60	121212032220000
435	6	10	60000	6	576(32,22,	6, 2, 2, 0, 0, 0, 0)	60	121212032230000
436	6	10	60000	6	288(29,15,	11, 1, 2, 0, 0, 0, 0)	62	231221032110000
437	6	10	60000	6	1440(31,19,	9, 1, 2, 0, 0, 0, 0)	62	231221032120000
438	6	10	60000	6	1440(32,21,	8, 1, 2, 0, 0, 0, 0)	62	231221032130000
439	6	10	60000	6	144(29,16,	9, 2, 2, 0, 0, 0, 0)	60	222311022110000
440	6	10	60000	6	720(31,20,	7, 2, 2, 0, 0, 0, 0)	60	222311022120000
441	6	10	60000	6	720(32,22,	6, 2, 2, 0, 0, 0, 0)	60	222311022130000
442	6	10	60000	6	144(30,16,	12, 0, 2, 0, 0, 0, 0)	64	321212032210000
443	6	10	60000	6	720(32,20,	10, 0, 2, 0, 0, 0, 0)	64	321212032220000
444	6	10	60000	6	576(33,22,	9, 0, 2, 0, 0, 0, 0)	64	321212032230000
445	6	9	60000	2	96(33,22,	7, 4, 0, 0, 0, 0, 0)	64	130230122000320
446	6	9	60000	2	96(33,22,	7, 4, 0, 0, 0, 0, 0)	64	120320123000320
447	6	9	60000	2	96(34,23,	8, 3, 0, 0, 0, 0, 0)	66	120320232000320
448	6	9	60000	2	48(34,24,	6, 4, 0, 0, 0, 0, 0)	64	130320122000330
449	6	9	60000	4	192(32,20,	9, 2, 1, 0, 0, 0, 0)	64	213112300002003
450	6	9	60000	4	192(32,20,	9, 2, 1, 0, 0, 0, 0)	64	231112300003002
451	6	9	60000	4	96(30,17,	9, 3, 1, 0, 0, 0, 0)	62	222111200002002
452	6	9	60000	4	384(32,21,	7, 3, 1, 0, 0, 0, 0)	62	222111300002003
453	6	9	60000	4	192(32,21,	7, 3, 1, 0, 0, 0, 0)	62	222111300003002
454	6	9	60000	4	96(33,21,	10, 1, 1, 0, 0, 0, 0)	66	222113300003002
455	6	9	60000	4	96(33,20,	12, 0, 1, 0, 0, 0, 0)	68	213312300003002
456	6	9	60000	4	192(33,21,	10, 1, 1, 0, 0, 0, 0)	66	213221300002003
457	6	9	60000	4	384(33,21,	10, 1, 1, 0, 0, 0, 0)	66	222311300003002
458	6	9	60000	4	96(35,24,	10, 0, 1, 0, 0, 0, 0)	68	222222300003002
459	6	9	60000	4	96(31,18,	10, 2, 1, 0, 0, 0, 0)	64	312211200002003
460	6	9	60000	4	192(31,18,	10, 2, 1, 0, 0, 0, 0)	64	312211300002002
461	6	9	60000	4	288(33,22,	8, 2, 1, 0, 0, 0, 0)	64	312211300003003
462	6	9	60000	4	96(34,23,	9, 1, 1, 0, 0, 0, 0)	66	321212300003003
463	6	9	60000	2	24(28,16,	4, 8, 0, 0, 0, 0, 0)	60	121120012010020
464	6	9	60000	2	96(30,19,	4, 7, 0, 0, 0, 0, 0)	60	121120023010020
465	6	9	60000	2	48(28,16,	4, 8, 0, 0, 0, 0, 0)	60	121120012020010
466	6	9	60000	2	96(30,19,	4, 7, 0, 0, 0, 0, 0)	60	121120032010020
467	6	9	60000	2	96(30,19,	4, 7, 0, 0, 0, 0, 0)	60	121120023020010
468	6	9	60000	2	24(28,16,	4, 8, 0, 0, 0, 0, 0)	60	121120021020010
469	6	9	60000	2	96(30,19,	4, 7, 0, 0, 0, 0, 0)	60	121120032020010
470	6	9	60000	2	192(32,22,	4, 6, 0, 0, 0, 0, 0)	60	121120023030020
471	6	9	60000	2	96(32,22,	4, 6, 0, 0, 0, 0, 0)	60	121120032030020
472	6	9	60000	2	96(32,22,	4, 6, 0, 0, 0, 0, 0)	60	121120023020030
473	6	9	60000	2	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	132120013010020
474	6	9	60000	2	192(31,20,	5, 6, 0, 0, 0, 0, 0)	60	132120022010020
475	6	9	60000	2	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	121230012030010
476	6	9	60000	2	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	132120013020010
477	6	9	60000	2	192(31,20,	5, 6, 0, 0, 0, 0, 0)	60	132120022020010
478	6	9	60000	2	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	132120031020010
479	6	9	60000	2	192(32,21,	6, 5, 0, 0, 0, 0, 0)	62	132120013030020
480	6	9	60000	2	384(33,23,	5, 5, 0, 0, 0, 0, 0)	62	121230032020020
481	6	9	60000	2	192(32,21,	6, 5, 0, 0, 0, 0, 0)	62	121230032030010
482	6	9	60000	2	192(32,21,	6, 5, 0, 0, 0, 0, 0)	62	121230023010030
483	6	9	60000	2	384(33,23,	5, 5, 0, 0, 0, 0, 0)	62	121230023020020
484	6	9	60000	2	192(32,21,	6, 5, 0, 0, 0, 0, 0)	62	121230023030010
485	6	9	60000	2	72(32,20,	8, 4, 0, 0, 0, 0, 0)	64	132230013010030
486	6	9	60000	2	288(33,22,	7, 4, 0, 0, 0, 0, 0)	64	132230013020020
487	6	9	60000	2	144(32,20,	8, 4, 0, 0, 0, 0, 0)	64	132230013030010
488	6	9	60000	2	288(34,24,	6, 4, 0, 0, 0, 0, 0)	64	132230022020020
489	6	9	60000	2	288(33,22,	7, 4, 0, 0, 0, 0, 0)	64	132230022030010
490	6	9	60000	2	72(32,20,	8, 4, 0, 0, 0, 0, 0)	64	132230031030010
491	6	9	60000	2	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	231130012010020
492	6	9	60000	2	288(32,21,	6, 5, 0, 0, 0, 0, 0)	62	231130023010020
493	6	9	60000	2	192(30,18,	6, 6, 0, 0, 0, 0, 0)	60	231130012020010
494	6	9	60000	2	288(32,21,	6, 5, 0, 0, 0, 0, 0)	62	231130032010020
495	6	9	60000	2	168(34,24,	6, 4, 0, 0, 0, 0, 0)	64	231130023020030
496	6	9	60000	2	288(32,21,	6, 5, 0, 0, 0, 0, 0)	62	231130023020010
497	6	9	60000	2	336(34,24,	6, 4, 0, 0, 0, 0, 0)	64	231130023030020
498	6	9	60000	2	288(32,21,	6, 5, 0, 0, 0, 0, 0)	62	231130032020010
499	6	9	60000	2	216(34,24,	6, 4, 0, 0, 0, 0, 0)	64	231130032030020
500	6	9	60000	2	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	231130021020010
501	6	9	60000	2	192(33,22,	7, 4, 0, 0, 0, 0, 0)	64	231220023010030
502	6	9	60000	2	384(34,24,	6, 4, 0, 0, 0, 0, 0)	64	231220023020020
503	6	9	60000	2	192(33,22,	7, 4, 0, 0, 0, 0, 0)	64	231220023030010

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
504	6	9	60000	2	288(33,22,7,4,0,0,0,0,0,0)	64	222130013030020	
505	6	9	60000	2	480(34,24,6,4,0,0,0,0,0,0)	64	231220032020020	
506	6	9	60000	2	288(33,22,7,4,0,0,0,0,0,0)	64	231220032030010	
507	6	9	60000	2	96(31,19,7,5,0,0,0,0,0,0)	62	222130013010020	
508	6	9	60000	2	192(32,21,6,5,0,0,0,0,0,0)	62	222130022010020	
509	6	9	60000	2	96(31,19,7,5,0,0,0,0,0,0)	62	231220012030010	
510	6	9	60000	2	192(31,19,7,5,0,0,0,0,0,0)	62	222130013020010	
511	6	9	60000	2	384(32,21,6,5,0,0,0,0,0,0)	62	222130022020010	
512	6	9	60000	2	192(31,19,7,5,0,0,0,0,0,0)	62	222130031020010	
513	6	9	60000	2	240(34,24,6,4,0,0,0,0,0,0)	64	222220022020020	
514	6	9	60000	2	288(33,22,7,4,0,0,0,0,0,0)	64	222220022030010	
515	6	9	60000	2	96(32,20,8,4,0,0,0,0,0,0)	64	222220031030010	
516	6	9	60000	2	48(32,20,8,4,0,0,0,0,0,0)	64	222220013010030	
517	6	9	60000	2	192(33,22,7,4,0,0,0,0,0,0)	64	222220013020020	
518	6	9	60000	2	96(32,20,8,4,0,0,0,0,0,0)	64	222220013030010	
519	6	9	60000	4	192(28,14,9,4,1,0,0,0,0,0)	60	132120211000010	
520	6	9	60000	4	768(30,18,7,4,1,0,0,0,0,0)	60	132120211000020	
521	6	9	60000	4	768(31,20,6,4,1,0,0,0,0,0)	60	132120211000030	
522	6	9	60000	4	96(26,10,12,2,2,0,0,0,0,0)	60	112210211000010	
523	6	9	60000	4	384(28,14,10,2,2,0,0,0,0,0)	60	112210211000020	
524	6	9	60000	4	384(29,16,9,2,2,0,0,0,0,0)	60	112210211000030	
525	6	9	60000	4	192(29,15,10,3,1,0,0,0,0,0)	62	123120212000010	
526	6	9	60000	4	768(31,19,8,3,1,0,0,0,0,0)	62	123120212000020	
527	6	9	60000	4	768(32,21,7,3,1,0,0,0,0,0)	62	123120212000030	
528	6	9	60000	4	768(30,17,9,3,1,0,0,0,0,0)	62	132230211000010	
529	6	9	60000	4	2496(32,21,7,3,1,0,0,0,0,0)	62	132230211000020	
530	6	9	60000	4	2112(33,23,6,3,1,0,0,0,0,0)	62	132230211000030	
531	6	9	60000	4	1152(31,19,9,1,2,0,0,0,0,0)	62	112320211000030	
532	6	9	60000	4	384(28,13,12,1,2,0,0,0,0,0)	62	112320211000010	
533	6	9	60000	4	1344(30,17,10,1,2,0,0,0,0,0)	62	112320211000020	
534	6	9	60000	4	1152(33,23,6,3,1,0,0,0,0,0)	62	112320213000030	
535	6	9	60000	4	384(30,17,9,3,1,0,0,0,0,0)	62	112320213000010	
536	6	9	60000	4	1344(32,21,7,3,1,0,0,0,0,0)	62	112320213000020	
537	6	9	60000	4	768(31,18,10,2,1,0,0,0,0,0)	64	123230212000010	
538	6	9	60000	4	2496(33,22,8,2,1,0,0,0,0,0)	64	123230212000020	
539	6	9	60000	4	1920(34,24,7,2,1,0,0,0,0,0)	64	123230212000030	
540	6	9	60000	4	576(33,24,4,4,1,0,0,0,0,0)	60	121230212000030	
541	6	9	60000	4	192(30,18,7,4,1,0,0,0,0,0)	60	121230212000010	
542	6	9	60000	4	672(32,22,5,4,1,0,0,0,0,0)	60	121230212000020	
543	6	9	60000	4	192(28,14,9,4,1,0,0,0,0,0)	60	132210211000010	
544	6	9	60000	4	768(30,18,7,4,1,0,0,0,0,0)	60	132210211000020	
545	6	9	60000	4	768(31,20,6,4,1,0,0,0,0,0)	60	132210211000030	
546	6	9	60000	4	192(29,15,10,3,1,0,0,0,0,0)	62	123210212000010	
547	6	9	60000	4	768(31,19,8,3,1,0,0,0,0,0)	62	123210212000020	
548	6	9	60000	4	768(32,21,7,3,1,0,0,0,0,0)	62	123210212000030	
549	6	9	60000	4	768(30,17,9,3,1,0,0,0,0,0)	62	132320211000010	
550	6	9	60000	4	2496(32,21,7,3,1,0,0,0,0,0)	62	132320211000020	
551	6	9	60000	4	1920(33,23,6,3,1,0,0,0,0,0)	62	132320211000030	
552	6	9	60000	4	2112(34,24,7,2,1,0,0,0,0,0)	64	123320212000030	
553	6	9	60000	4	768(31,18,10,2,1,0,0,0,0,0)	64	123320212000010	
554	6	9	60000	4	2496(33,22,8,2,1,0,0,0,0,0)	64	123320212000020	
555	6	9	60000	4	576(33,24,4,4,1,0,0,0,0,0)	60	121320212000030	
556	6	9	60000	4	192(30,18,7,4,1,0,0,0,0,0)	60	121320212000010	
557	6	9	60000	4	672(32,22,5,4,1,0,0,0,0,0)	60	121320212000020	
558	6	9	60000	4	192(29,14,12,2,1,0,0,0,0,0)	64	123210321000010	
559	6	9	60000	4	768(31,18,10,2,1,0,0,0,0,0)	64	123210321000020	
560	6	9	60000	4	768(32,20,9,2,1,0,0,0,0,0)	64	123210321000030	
561	6	9	60000	4	576(31,17,12,1,1,0,0,0,0,0)	66	123320321000010	
562	6	9	60000	4	1824(33,21,10,1,1,0,0,0,0,0)	66	123320321000020	
563	6	9	60000	4	1344(34,23,9,1,1,0,0,0,0,0)	66	123320321000030	
564	6	9	60000	4	96(29,13,14,1,1,0,0,0,0,0)	66	213310312000010	
565	6	9	60000	4	384(31,17,12,1,1,0,0,0,0,0)	66	213310312000020	
566	6	9	60000	4	384(32,19,11,1,1,0,0,0,0,0)	66	213310312000030	
567	6	9	60000	4	192(29,14,12,2,1,0,0,0,0,0)	64	222130311000010	
568	6	9	60000	4	768(31,18,10,2,1,0,0,0,0,0)	64	222130311000020	
569	6	9	60000	4	768(32,20,9,2,1,0,0,0,0,0)	64	222130311000030	
570	6	9	60000	4	96(30,15,13,1,1,0,0,0,0,0)	66	213220312000010	
571	6	9	60000	4	480(32,19,11,1,1,0,0,0,0,0)	66	213220312000020	
572	6	9	60000	4	480(33,21,10,1,1,0,0,0,0,0)	66	213220312000030	
573	6	9	60000	4	384(30,16,11,2,1,0,0,0,0,0)	64	222220311000010	
574	6	9	60000	4	1920(32,20,9,2,1,0,0,0,0,0)	64	222220311000020	
575	6	9	60000	4	1728(33,22,8,2,1,0,0,0,0,0)	64	222220311000030	
576	6	9	60000	4	192(29,14,12,2,1,0,0,0,0,0)	64	222310311000010	
577	6	9	60000	4	768(31,18,10,2,1,0,0,0,0,0)	64	222310311000020	
578	6	9	60000	4	768(32,20,9,2,1,0,0,0,0,0)	64	222310311000030	
579	6	9	60000	4	96(31,17,12,1,1,0,0,0,0,0)	66	222310222000010	
580	6	9	60000	4	384(33,21,10,1,1,0,0,0,0,0)	66	222310222000020	
581	6	9	60000	4	384(34,23,9,1,1,0,0,0,0,0)	66	222310222000030	
582	6	9	60000	4	96(32,19,11,1,1,0,0,0,0,0)	66	222220222000010	
583	6	9	60000	4	480(34,23,9,1,1,0,0,0,0,0)	66	222220222000020	
584	6	9	60000	4	384(35,25,8,1,1,0,0,0,0,0)	66	222220222000030	
585	6	9	60000	2	96(30,16,10,4,0,0,0,0,0,0)	64	320210101003220	
586	6	9	60000	2	96(31,18,9,4,0,0,0,0,0,0)	64	220310101003320	
587	6	9	60000	2	192(33,21,9,3,0,0,0,0,0,0)	66	320210202003220	
588	6	9	60000	2	192(34,23,8,3,0,0,0,0,0,0)	66	220310202003320	
589	6	9	60000	2	96(33,21,9,3,0,0,0,0,0,0)	66	220310301003320	
590	6	9	60000	2	192(33,21,9,3,0,0,0,0,0,0)	66	330210102003320	
591	6	9	60000	2	96(32,19,10,3,0,0,0,0,0,0)	66	230310102003220	
592	6	9	60000	2	192(33,21,9,3,0,0,0,0,0,0)	66	330210201003320	
593	6	9	60000	2	96(32,19,10,3,0,0,0,0,0,0)	66	230310201003220	
594	6	9	60000	2	48(33,21,9,3,0,0,0,0,0,0)	66	230220201003320	
595	6	9	60000	6	288(32,20,8,4,0,0,0,0,0,0)	64	222310202003100	
596	6	9	60000	6	576(33,22,7,4,0,0,0,0,0,0)	64	222220202003100	
597	6	9	60000	6	144(32,20,8,4,0,0,0,0,0,0)	64	222130202003100	
598	6	9	60000	6	96(31,18,9,4,0,0,0,0,0,0)	64	222310103003100	
599	6	9	60000	6	192(34,24,6,4,0,0,0,0,0,0)	64	222220202002200	
600	6	9	60000	2	96(30,17,9,3,1,0,0,0,0,0)	62	211312100003200	
601	6	9	60000	2	96(30,17,9,3,1,0,0,0,0,0)	62	121321100003200	
602	6	9	60000	2	384(32,21,7,3,1,0,0,0,0,0)	62	211312200003200	
603	6	9	60000	2	384(32,21,7,3,1,0,0,0,0,0)	62	121321200003200	
604	6	9	60000	2	384(33,23,6,3,1,0,0,0,0,0)	62	211312300003200	
605	6	9	60000	2	384(33,23,6,3,1,0,0,0,0,0)	62	121321300003200	
606	6	9	60000	2	48(28,14,10,2,2,0,0,0,0,0)	60	211112200002100	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
607	6	9	60000	2	48(28,14,10,2,2,0,0,0,0,0)	60	121121200002100	
608	6	9	60000	2	96(30,17,10,1,2,0,0,0,0,0)	62	121121200003200	
609	6	9	60000	2	96(30,17,10,1,2,0,0,0,0,0)	62	211112200003200	
610	6	9	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	211112300002100	
611	6	9	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	121121300002100	
612	6	9	60000	2	192(31,19,9,1,2,0,0,0,0,0)	62	121121300003200	
613	6	9	60000	2	192(31,19,9,1,2,0,0,0,0,0)	62	211112300003200	
614	6	9	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	211132200002100	
615	6	9	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	121123200002100	
616	6	9	60000	2	192(32,21,7,3,1,0,0,0,0,0)	62	121123200003200	
617	6	9	60000	2	192(32,21,7,3,1,0,0,0,0,0)	62	211132200003200	
618	6	9	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	211132300002100	
619	6	9	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	121123300002100	
620	6	9	60000	2	384(33,23,6,3,1,0,0,0,0,0)	62	121123300003200	
621	6	9	60000	2	384(33,23,6,3,1,0,0,0,0,0)	62	211132300003200	
622	6	9	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	211221100003200	
623	6	9	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	121212100003200	
624	6	9	60000	2	384(32,22,5,4,1,0,0,0,0,0)	60	211221200003200	
625	6	9	60000	2	384(32,22,5,4,1,0,0,0,0,0)	60	121212200003200	
626	6	9	60000	2	384(33,24,4,4,1,0,0,0,0,0)	60	211221300003200	
627	6	9	60000	2	384(33,24,4,4,1,0,0,0,0,0)	60	121212300003200	
628	6	9	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	211223200002100	
629	6	9	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	121232200002100	
630	6	9	60000	2	384(33,22,8,2,1,0,0,0,0,0)	64	121232200003200	
631	6	9	60000	2	384(33,22,8,2,1,0,0,0,0,0)	64	211223200003200	
632	6	9	60000	2	288(32,21,7,3,1,0,0,0,0,0)	62	211223300002100	
633	6	9	60000	2	288(32,21,7,3,1,0,0,0,0,0)	62	121232300002100	
634	6	9	60000	2	576(34,24,7,2,1,0,0,0,0,0)	64	121232300003200	
635	6	9	60000	2	576(34,24,7,2,1,0,0,0,0,0)	64	211223300003200	
636	6	9	60000	2	96(31,18,10,2,1,0,0,0,0,0)	64	312122200003100	
637	6	9	60000	2	192(32,20,9,2,1,0,0,0,0,0)	64	312122200002200	
638	6	9	60000	2	96(31,18,10,2,1,0,0,0,0,0)	64	132122200003100	
639	6	9	60000	2	192(32,20,9,2,1,0,0,0,0,0)	64	312122300003100	
640	6	9	60000	2	384(33,22,8,2,1,0,0,0,0,0)	64	312122300002200	
641	6	9	60000	2	192(32,20,9,2,1,0,0,0,0,0)	64	132122300003100	
642	6	9	60000	2	96(31,17,12,1,1,0,0,0,0,0)	66	312213200003100	
643	6	9	60000	2	192(32,19,11,1,1,0,0,0,0,0)	66	132231200002200	
644	6	9	60000	2	96(31,17,12,1,1,0,0,0,0,0)	66	132231200003100	
645	6	9	60000	2	144(32,19,11,1,1,0,0,0,0,0)	66	312213300003100	
646	6	9	60000	2	288(33,21,10,1,1,0,0,0,0,0)	66	132231300002200	
647	6	9	60000	2	144(32,19,11,1,1,0,0,0,0,0)	66	132231300003100	
648	6	9	60000	2	192(30,17,9,3,1,0,0,0,0,0)	62	321121100003200	
649	6	9	60000	2	192(30,17,9,3,1,0,0,0,0,0)	62	231112100003200	
650	6	9	60000	2	96(28,14,9,4,1,0,0,0,0,0)	60	321121100002100	
651	6	9	60000	2	96(28,14,9,4,1,0,0,0,0,0)	60	231112100002100	
652	6	9	60000	2	672(32,21,7,3,1,0,0,0,0,0)	62	321121200003200	
653	6	9	60000	2	672(32,21,7,3,1,0,0,0,0,0)	62	231112200003200	
654	6	9	60000	2	384(30,18,7,4,1,0,0,0,0,0)	60	321121200002100	
655	6	9	60000	2	384(30,18,7,4,1,0,0,0,0,0)	60	231112200002100	
656	6	9	60000	2	576(33,23,6,3,1,0,0,0,0,0)	62	321121300003200	
657	6	9	60000	2	672(33,23,6,3,1,0,0,0,0,0)	62	231112300003200	
658	6	9	60000	2	384(31,20,6,4,1,0,0,0,0,0)	60	321121300002100	
659	6	9	60000	2	384(31,20,6,4,1,0,0,0,0,0)	60	231112300002100	
660	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	321123200002100	
661	6	9	60000	2	288(33,21,10,1,1,0,0,0,0,0)	66	321123200003200	
662	6	9	60000	2	288(33,21,10,1,1,0,0,0,0,0)	66	231132200003200	
663	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	231132200002100	
664	6	9	60000	2	288(32,20,9,2,1,0,0,0,0,0)	64	321123300002100	
665	6	9	60000	2	336(34,23,9,1,1,0,0,0,0,0)	66	321123300003200	
666	6	9	60000	2	432(34,23,9,1,1,0,0,0,0,0)	66	231132300003200	
667	6	9	60000	2	288(32,20,9,2,1,0,0,0,0,0)	64	231132300002100	
668	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	321212100003200	
669	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	231221100003200	
670	6	9	60000	2	96(29,15,10,3,1,0,0,0,0,0)	62	321212100002100	
671	6	9	60000	2	96(29,15,10,3,1,0,0,0,0,0)	62	231221100002100	
672	6	9	60000	2	864(33,22,8,2,1,0,0,0,0,0)	64	321212200003200	
673	6	9	60000	2	864(33,22,8,2,1,0,0,0,0,0)	64	231221200003200	
674	6	9	60000	2	480(31,19,8,3,1,0,0,0,0,0)	62	321212200002100	
675	6	9	60000	2	480(31,19,8,3,1,0,0,0,0,0)	62	231221200002100	
676	6	9	60000	2	768(34,24,7,2,1,0,0,0,0,0)	64	321212300003200	
677	6	9	60000	2	864(34,24,7,2,1,0,0,0,0,0)	64	231221300003200	
678	6	9	60000	2	480(32,21,7,3,1,0,0,0,0,0)	62	321212300002100	
679	6	9	60000	2	480(32,21,7,3,1,0,0,0,0,0)	62	231221300002100	
680	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	222131200003100	
681	6	9	60000	2	384(32,20,9,2,1,0,0,0,0,0)	64	222131200002200	
682	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	222131300003100	
683	6	9	60000	2	288(32,20,9,2,1,0,0,0,0,0)	64	222131300002200	
684	6	9	60000	2	480(33,22,8,2,1,0,0,0,0,0)	64	222131300003100	
685	6	9	60000	2	288(32,20,9,2,1,0,0,0,0,0)	64	222222200003100	
686	6	9	60000	2	288(33,21,10,1,1,0,0,0,0,0)	66	222222200002200	
687	6	9	60000	2	288(34,23,9,1,1,0,0,0,0,0)	66	222222300003100	
688	6	9	60000	2	384(34,23,9,1,1,0,0,0,0,0)	66	222222300002200	
689	6	9	60000	2	336(35,25,8,1,1,0,0,0,0,0)	66	231130300002303	
690	6	9	60000	1	48(34,23,8,3,0,0,0,0,0,0)	66	231130300003202	
691	6	9	60000	1	48(33,21,9,3,0,0,0,0,0,0)	66	231220200002302	
692	6	9	60000	1	48(33,21,9,3,0,0,0,0,0,0)	66	231220200003203	
693	6	9	60000	1	48(34,23,8,3,0,0,0,0,0,0)	66	231220300002303	
694	6	9	60000	1	96(35,25,7,3,0,0,0,0,0,0)	66	231220300003202	
695	6	9	60000	1	96(34,23,8,3,0,0,0,0,0,0)	66	231310200003203	
696	6	9	60000	1	48(33,21,9,3,0,0,0,0,0,0)	66	231310300003202	
697	6	9	60000	1	48(33,21,9,3,0,0,0,0,0,0)	66	222220300002203	
698	6	9	60000	1	48(35,25,7,3,0,0,0,0,0,0)	64	123120320000302	
699	6	9	60000	4	192(33,22,7,4,0,0,0,0,0,0)	64	123210320000302	
700	6	9	60000	4	192(33,22,7,4,0,0,0,0,0,0)	64	132120320000202	
701	6	9	60000	4	96(32,20,8,4,0,0,0,0,0,0)	64	132120320000303	
702	6	9	60000	4	192(34,24,6,4,0,0,0,0,0,0)	66	123230320000302	
703	6	9	60000	4	384(35,25,7,3,0,0,0,0,0,0)	66	123230320000302	
704	6	9	60000	4	384(35,25,7,3,0,0,0,0,0,0)	66	132230320000202	
705	6	9	60000	4	192(34,23,8,3,0,0,0,0,0,0)	66	132230320000303	
706	6	9	60000	4	384(36,27,6,3,0,0,0,0,0,0)	66	132210320000202	
707	6	9	60000	4	96(32,20,8,4,0,0,0,0,0,0)	64	132210320000303	
708	6	9	60000	4	192(34,24,6,4,0,0,0,0,0,0)	64	132230320000202	
709	6	9	60000	4	192(34,23,8,3,0,0,0,0,0,0)	66	132230320000202	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
710	6	9	60000	4	384(36,27,6,3,0,0,0,0,0,0)	66	132320320000303	
711	6	9	60000	2	24(28,16,4,8,0,0,0,0,0,0)	60	121210100001220	
712	6	9	60000	2	48(30,18,6,6,0,0,0,0,0,0)	60	121210100002330	
713	6	9	60000	2	96(30,20,2,8,0,0,0,0,0,0)	60	121210200001220	
714	6	9	60000	2	192(32,22,4,6,0,0,0,0,0,0)	60	121210200002330	
715	6	9	60000	2	96(31,22,1,8,0,0,0,0,0,0)	60	121210300001220	
716	6	9	60000	2	192(33,24,3,6,0,0,0,0,0,0)	60	121210300002330	
717	6	9	60000	2	96(30,18,6,6,0,0,0,0,0,0)	60	132210100001320	
718	6	9	60000	2	96(31,19,7,5,0,0,0,0,0,0)	62	121320100002320	
719	6	9	60000	2	384(32,22,4,6,0,0,0,0,0,0)	60	132210200001320	
720	6	9	60000	2	384(33,23,5,5,0,0,0,0,0,0)	62	121320200002320	
721	6	9	60000	2	384(33,24,3,6,0,0,0,0,0,0)	60	132210300001320	
722	6	9	60000	2	384(34,25,4,5,0,0,0,0,0,0)	62	121320300002320	
723	6	9	60000	2	72(32,20,8,4,0,0,0,0,0,0)	64	132320100001330	
724	6	9	60000	2	48(32,20,8,4,0,0,0,0,0,0)	64	132320100002220	
725	6	9	60000	2	288(34,24,6,4,0,0,0,0,0,0)	64	132320200001330	
726	6	9	60000	2	192(34,24,6,4,0,0,0,0,0,0)	64	132320200002220	
727	6	9	60000	2	288(35,26,5,4,0,0,0,0,0,0)	64	132320300001330	
728	6	9	60000	2	192(35,26,5,4,0,0,0,0,0,0)	64	132320300002220	
729	6	9	60000	2	96(31,19,7,5,0,0,0,0,0,0)	62	222310100001320	
730	6	9	60000	2	96(32,20,8,4,0,0,0,0,0,0)	64	231220100002320	
731	6	9	60000	2	480(33,23,5,5,0,0,0,0,0,0)	62	222310200001320	
732	6	9	60000	2	480(34,24,6,4,0,0,0,0,0,0)	64	231220200002320	
733	6	9	60000	2	480(34,25,4,5,0,0,0,0,0,0)	62	222310300001320	
734	6	9	60000	2	384(35,26,5,4,0,0,0,0,0,0)	64	231220300002320	
735	6	9	60000	2	96(30,18,6,6,0,0,0,0,0,0)	60	231310100001220	
736	6	9	60000	2	144(32,20,8,4,0,0,0,0,0,0)	64	231310100002330	
737	6	9	60000	2	336(32,22,4,6,0,0,0,0,0,0)	60	231310200001220	
738	6	9	60000	2	456(34,24,6,4,0,0,0,0,0,0)	64	231310200002330	
739	6	9	60000	2	288(33,24,3,6,0,0,0,0,0,0)	60	231310300001220	
740	6	9	60000	2	336(35,26,5,4,0,0,0,0,0,0)	64	231310300002320	
741	6	9	60000	2	48(32,20,8,4,0,0,0,0,0,0)	64	222220100001330	
742	6	9	60000	2	48(32,20,8,4,0,0,0,0,0,0)	64	222220100002220	
743	6	9	60000	2	192(34,24,6,4,0,0,0,0,0,0)	64	222220200001330	
744	6	9	60000	2	192(34,24,6,4,0,0,0,0,0,0)	64	222220200002220	
745	6	9	60000	2	192(35,26,5,4,0,0,0,0,0,0)	64	222220300001330	
746	6	9	60000	2	192(35,26,5,4,0,0,0,0,0,0)	64	222220300002220	
747	6	9	60000	2	48(34,22,10,2,0,0,0,0,0,0)	68	120320320000233	
748	6	9	60000	2	96(35,24,9,2,0,0,0,0,0,0)	68	130320320000332	
749	6	9	60000	2	96(36,26,8,2,0,0,0,0,0,0)	68	130320320000333	
750	6	9	60000	12	2304(28,14,9,4,1,0,0,0,0,0)	60	312211200010001	
751	6	9	60000	12	2304(30,17,9,3,1,0,0,0,0,0)	62	312211300010002	
752	6	9	60000	12	2304(31,19,8,3,1,0,0,0,0,0)	62	312211200020002	
753	6	9	60000	12	4608(30,17,9,3,1,0,0,0,0,0)	62	312211300020000	
754	6	9	60000	12	288(28,13,12,1,2,0,0,0,0,0)	62	112211300020001	
755	6	9	60000	12	1152(30,17,9,3,1,0,0,0,0,0)	62	123121300020001	
756	6	9	60000	12	1152(28,15,7,5,1,0,0,0,0,0)	58	222111200010001	
757	6	9	60000	12	1152(30,18,7,4,1,0,0,0,0,0)	60	222111300010002	
758	6	9	60000	12	1152(31,20,6,4,1,0,0,0,0,0)	60	222111200020002	
759	6	9	60000	12	2304(30,18,7,4,1,0,0,0,0,0)	60	222111300020001	
760	6	9	60000	12	576(32,20,9,2,1,0,0,0,0,0)	64	213221200020002	
761	6	9	60000	12	2304(31,18,10,2,1,0,0,0,0,0)	64	213221300020001	
762	6	9	60000	12	576(31,18,10,2,1,0,0,0,0,0)	64	312122300020001	
763	6	9	60000	12	288(32,19,11,1,1,0,0,0,0,0)	66	123321200020002	
764	6	9	60000	12	1152(31,17,12,1,1,0,0,0,0,0)	66	123321300020001	
765	6	9	60000	12	1152(29,15,10,3,1,0,0,0,0,0)	62	2223112000010001	
766	6	9	60000	12	288(31,18,10,2,1,0,0,0,0,0)	64	2223112000010003	
767	6	9	60000	12	1152(31,18,10,2,1,0,0,0,0,0)	64	2223113000010002	
768	6	9	60000	12	1728(32,20,9,2,1,0,0,0,0,0)	64	222311200020002	
769	6	9	60000	12	2880(31,18,10,2,1,0,0,0,0,0)	64	222311300020001	
770	6	9	60000	12	288(34,23,9,1,1,0,0,0,0,0)	66	222222200020002	
771	6	9	60000	12	576(33,21,10,1,1,0,0,0,0,0)	66	222222300020001	
772	6	9	60000	2	24(28,16,4,8,0,0,0,0,0,0)	60	112120201020010	
773	6	9	60000	2	96(30,19,4,7,0,0,0,0,0,0)	60	112120302020010	
774	6	9	60000	2	96(32,22,4,6,0,0,0,0,0,0)	60	112120302030020	
775	6	9	60000	2	96(31,20,5,6,0,0,0,0,0,0)	60	123120202020010	
776	6	9	60000	2	96(30,18,6,6,0,0,0,0,0,0)	60	123120301020010	
777	6	9	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	112230202030010	
778	6	9	60000	2	192(33,23,5,5,0,0,0,0,0,0)	62	112230302020020	
779	6	9	60000	2	192(32,21,6,5,0,0,0,0,0,0)	62	112230302030010	
780	6	9	60000	2	96(34,24,6,4,0,0,0,0,0,0)	64	123230202020020	
781	6	9	60000	2	192(33,22,7,4,0,0,0,0,0,0)	64	123230202030010	
782	6	9	60000	2	72(32,20,8,4,0,0,0,0,0,0)	64	123230301030010	
783	6	9	60000	2	96(30,18,6,6,0,0,0,0,0,0)	60	213130201020010	
784	6	9	60000	2	288(32,21,6,5,0,0,0,0,0,0)	62	213130302020010	
785	6	9	60000	2	216(34,24,6,4,0,0,0,0,0,0)	64	213130302030020	
786	6	9	60000	2	96(31,19,7,5,0,0,0,0,0,0)	62	213220102030010	
787	6	9	60000	2	96(34,24,6,4,0,0,0,0,0,0)	64	213220203020020	
788	6	9	60000	2	192(33,22,7,4,0,0,0,0,0,0)	64	213220203030010	
789	6	9	60000	2	192(32,21,6,5,0,0,0,0,0,0)	62	222130202020010	
790	6	9	60000	2	192(31,19,7,5,0,0,0,0,0,0)	62	222130301020010	
791	6	9	60000	2	288(34,24,6,4,0,0,0,0,0,0)	64	213220302020020	
792	6	9	60000	2	288(33,22,7,4,0,0,0,0,0,0)	64	213220302030010	
793	6	9	60000	2	240(34,24,6,4,0,0,0,0,0,0)	64	222220202020020	
794	6	9	60000	2	288(33,22,7,4,0,0,0,0,0,0)	64	222220202030010	
795	6	9	60000	2	96(32,20,8,4,0,0,0,0,0,0)	64	222220301030010	
796	6	9	60000	2	96(33,22,7,4,0,0,0,0,0,0)	64	222220103020020	
797	6	9	60000	2	96(32,20,8,4,0,0,0,0,0,0)	64	222220103030010	
798	6	9	60000	8	192(34,25,4,5,0,0,0,0,0,0)	62	222103130230000	
799	6	9	60000	8	192(34,24,6,4,0,0,0,0,0,0)	64	213203220220000	
800	6	9	60000	8	384(35,26,5,4,0,0,0,0,0,0)	64	213203220230000	
801	6	9	60000	8	48(32,20,8,4,0,0,0,0,0,0)	64	222202220210000	
802	6	9	60000	8	192(34,24,6,4,0,0,0,0,0,0)	64	222202220220000	
803	6	9	60000	8	192(35,26,5,4,0,0,0,0,0,0)	64	222202220230000	
804	6	9	60000	2	48(32,22,4,6,0,0,0,0,0,0)	60	112102320032000	
805	6	9	60000	2	48(32,22,4,6,0,0,0,0,0,0)	60	112201230023000	
806	6	9	60000	2	96(32,22,4,6,0,0,0,0,0,0)	60	112201230032000	
807	6	9	60000	2	48(32,22,4,6,0,0,0,0,0,0)	60	112201320032000	
808	6	9	60000	2	96(34,25,4,5,0,0,0,0,0,0)	62	112203230032000	
809	6	9	60000	2	96(34,25,4,5,0,0,0,0,0,0)	62	112203320032000	
810	6	9	60000	2	96(34,25,4,5,0,0,0,0,0,0)	62	112302230023000	
811	6	9	60000	2	192(34,25,4,5,0,0,0,0,0,0)	62	112302230032000	
812	6	9	60000	2	96(34,25,4,5,0,0,0,0,0,0)	62	112302320032000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COORD	TERM	GRAPH MATRIX
813	6	9	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	123103320021000	
814	6	9	60000	2	144(34,24,6,4,0,0,0,0,0,0)	64	123103320032000	
815	6	9	60000	2	96(33,23,5,5,0,0,0,0,0,0)	62	123202320012000	
816	6	9	60000	2	96(35,26,5,4,0,0,0,0,0,0)	64	123202230023000	
817	6	9	60000	2	96(33,23,5,5,0,0,0,0,0,0)	62	123202230021000	
818	6	9	60000	2	384(35,26,5,4,0,0,0,0,0,0)	64	123202230032000	
819	6	9	60000	2	192(33,23,5,5,0,0,0,0,0,0)	62	123202320021000	
820	6	9	60000	2	288(35,26,5,4,0,0,0,0,0,0)	64	123202320032000	
821	6	9	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	123301230012000	
822	6	9	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	123301320012000	
823	6	9	60000	2	144(34,24,6,4,0,0,0,0,0,0)	64	123301230023000	
824	6	9	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	123301230021000	
825	6	9	60000	2	288(34,24,6,4,0,0,0,0,0,0)	64	123301230032000	
826	6	9	60000	2	96(32,21,6,5,0,0,0,0,0,0)	62	123301320021000	
827	6	9	60000	2	144(34,24,6,4,0,0,0,0,0,0)	64	123301320032000	
828	6	9	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	132211120020000	
829	6	9	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	132211120030000	
830	6	9	60000	2	384(32,21,7,3,1,0,0,0,0,0)	62	132211230020000	
831	6	9	60000	2	576(33,23,6,3,1,0,0,0,0,0)	62	132211230030000	
832	6	9	60000	2	96(28,14,9,4,1,0,0,0,0,0)	60	132211210010000	
833	6	9	60000	2	384(30,18,7,4,1,0,0,0,0,0)	60	132211210020000	
834	6	9	60000	2	384(31,20,6,4,1,0,0,0,0,0)	60	132211210030000	
835	6	9	60000	2	192(30,17,9,3,1,0,0,0,0,0)	62	132211320010000	
836	6	9	60000	2	768(32,21,7,3,1,0,0,0,0,0)	62	132211320020000	
837	6	9	60000	2	768(33,23,6,3,1,0,0,0,0,0)	62	132211320030000	
838	6	9	60000	2	96(31,19,9,1,2,0,0,0,0,0)	62	112211230030000	
839	6	9	60000	2	48(28,14,10,2,2,0,0,0,0,0)	60	112211210020000	
840	6	9	60000	2	96(29,16,9,2,2,0,0,0,0,0)	60	112211210030000	
841	6	9	60000	2	96(30,17,10,1,2,0,0,0,0,0)	62	112211320020000	
842	6	9	60000	2	192(31,19,9,1,2,0,0,0,0,0)	62	112211320030000	
843	6	9	60000	2	96(33,23,6,3,1,0,0,0,0,0)	62	112213230030000	
844	6	9	60000	2	96(32,21,7,3,1,0,0,0,0,0)	62	112213320020000	
845	6	9	60000	2	192(33,23,6,3,1,0,0,0,0,0)	62	112213320030000	
846	6	9	60000	2	96(32,22,5,4,1,0,0,0,0,0)	60	121212230020000	
847	6	9	60000	2	144(33,24,4,4,1,0,0,0,0,0)	60	121212230030000	
848	6	9	60000	2	48(30,18,7,4,1,0,0,0,0,0)	60	121212320010000	
849	6	9	60000	2	192(32,22,5,4,1,0,0,0,0,0)	60	121212320020000	
850	6	9	60000	2	192(33,24,4,4,1,0,0,0,0,0)	60	121212320030000	
851	6	9	60000	2	96(32,21,7,3,1,0,0,0,0,0)	62	123212120030000	
852	6	9	60000	2	96(33,22,8,2,1,0,0,0,0,0)	64	123212230020000	
853	6	9	60000	2	384(34,24,7,2,1,0,0,0,0,0)	64	123212230030000	
854	6	9	60000	2	192(31,19,8,3,1,0,0,0,0,0)	62	123212210020000	
855	6	9	60000	2	288(32,21,7,3,1,0,0,0,0,0)	62	123212210030000	
856	6	9	60000	2	384(33,22,8,2,1,0,0,0,0,0)	64	123212320020000	
857	6	9	60000	2	576(34,24,7,2,1,0,0,0,0,0)	64	123212320030000	
858	6	9	60000	2	192(34,24,7,2,1,0,0,0,0,0)	64	132122230030000	
859	6	9	60000	2	96(31,19,8,3,1,0,0,0,0,0)	62	132122210020000	
860	6	9	60000	2	192(32,21,7,3,1,0,0,0,0,0)	62	132122210030000	
861	6	9	60000	2	192(33,22,8,2,1,0,0,0,0,0)	64	132122320020000	
862	6	9	60000	2	384(34,24,7,2,1,0,0,0,0,0)	64	132122320030000	
863	6	9	60000	2	96(32,20,9,2,1,0,0,0,0,0)	64	123321120030000	
864	6	9	60000	2	96(33,21,10,1,1,0,0,0,0,0)	66	123321230020000	
865	6	9	60000	2	288(34,23,9,1,1,0,0,0,0,0)	66	123321230030000	
866	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	123321210020000	
867	6	9	60000	2	288(32,20,9,2,1,0,0,0,0,0)	64	123321210030000	
868	6	9	60000	2	288(33,21,10,1,1,0,0,0,0,0)	66	123321320020000	
869	6	9	60000	2	432(34,23,9,1,1,0,0,0,0,0)	66	123321320030000	
870	6	9	60000	2	48(33,24,4,4,1,0,0,0,0,0)	60	112122320030000	
871	6	9	60000	2	192(33,23,6,3,1,0,0,0,0,0)	62	123121230030000	
872	6	9	60000	2	96(30,18,7,4,1,0,0,0,0,0)	60	123121210020000	
873	6	9	60000	2	192(31,20,6,4,1,0,0,0,0,0)	60	123121210030000	
874	6	9	60000	2	192(32,21,7,3,1,0,0,0,0,0)	62	123121320020000	
875	6	9	60000	2	384(33,23,6,3,1,0,0,0,0,0)	62	123121320030000	
876	6	9	60000	2	96(32,19,11,1,1,0,0,0,0,0)	66	213312220020000	
877	6	9	60000	2	192(33,21,10,1,1,0,0,0,0,0)	66	213312220030000	
878	6	9	60000	2	96(31,17,12,1,1,0,0,0,0,0)	66	213312310020000	
879	6	9	60000	2	144(32,19,11,1,1,0,0,0,0,0)	66	213312310030000	
880	6	9	60000	2	96(31,18,10,2,1,0,0,0,0,0)	64	222311130020000	
881	6	9	60000	2	192(32,20,9,2,1,0,0,0,0,0)	64	222311130030000	
882	6	9	60000	2	96(30,16,11,2,1,0,0,0,0,0)	64	222311220010000	
883	6	9	60000	2	672(32,20,9,2,1,0,0,0,0,0)	64	222311220020000	
884	6	9	60000	2	768(33,22,8,2,1,0,0,0,0,0)	64	222311220030000	
885	6	9	60000	2	96(29,14,12,2,1,0,0,0,0,0)	64	222311310010000	
886	6	9	60000	2	480(31,18,10,2,1,0,0,0,0,0)	64	222311310020000	
887	6	9	60000	2	480(32,20,9,2,1,0,0,0,0,0)	64	222311310030000	
888	6	9	60000	2	192(32,20,9,2,1,0,0,0,0,0)	64	213221220020000	
889	6	9	60000	2	384(33,22,8,2,1,0,0,0,0,0)	64	213221220030000	
890	6	9	60000	2	192(31,18,10,2,1,0,0,0,0,0)	64	213221310020000	
891	6	9	60000	2	288(32,20,9,2,1,0,0,0,0,0)	64	213221310030000	
892	6	9	60000	2	48(34,23,9,1,1,0,0,0,0,0)	66	222222130030000	
893	6	9	60000	2	192(34,23,9,1,1,0,0,0,0,0)	66	222222200020000	
894	6	9	60000	2	288(35,25,8,1,1,0,0,0,0,0)	66	222222220030000	
895	6	9	60000	2	144(33,21,10,1,1,0,0,0,0,0)	66	222222310020000	
896	6	9	60000	2	192(34,23,9,1,1,0,0,0,0,0)	66	222222310030000	
897	6	9	60000	48	1152(36,28,4,4,0,0,0,0,0,0)	64	123203200032000	
898	6	9	60000	48	864(36,28,4,4,0,0,0,0,0,0)	64	123203200032000	
899	6	9	60000	48	288(36,28,4,4,0,0,0,0,0,0)	64	132303200032000	
900	6	9	60000	8	192(36,26,8,2,0,0,0,0,0,0)	68	33020130000323	
901	6	9	60000	12	96(35,24,9,2,0,0,0,0,0,0)	68	230200032000232	
902	6	8	60000	1	24(30,16,10,4,0,0,0,0,0,0)	64	2111022000002002	
903	6	8	60000	1	48(32,20,8,4,0,0,0,0,0,0)	64	2111022000003003	
904	6	8	60000	1	48(32,20,8,4,0,0,0,0,0,0)	64	2111023000002003	
905	6	8	60000	1	48(32,20,8,4,0,0,0,0,0,0)	64	2111023000003002	
906	6	8	60000	1	48(32,19,10,3,0,0,0,0,0,0)	66	2112032000002002	
907	6	8	60000	1	96(34,23,8,3,0,0,0,0,0,0)	66	2112032000003003	
908	6	8	60000	1	96(34,23,8,3,0,0,0,0,0,0)	66	2112033000002003	
909	6	8	60000	1	96(34,23,8,3,0,0,0,0,0,0)	66	2112033000003002	
910	6	8	60000	1	24(30,16,10,4,0,0,0,0,0,0)	64	2112012000002002	
911	6	8	60000	1	48(32,20,8,4,0,0,0,0,0,0)	64	2112012000003003	
912	6	8	60000	1	48(32,20,8,4,0,0,0,0,0,0)	64	2112013000002003	
913	6	8	60000	1	48(32,20,8,4,0,0,0,0,0,0)	64	2112013000003002	
914	6	8	60000	1	48(32,19,10,3,0,0,0,0,0,0)	66	2113022000002002	
915	6	8	60000	1	96(34,23,8,3,0,0,0,0,0,0)	66	2113022000003003	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
916	6	8	60000	1	96134,23,	8, 3, 0, 0, 0, 0, 0)	66	211307300002003
917	6	8	60000	1	96134,23,	8, 3, 0, 0, 0, 0, 0)	66	211302300003002
918	6	8	60000	1	48134,23,	8, 3, 0, 0, 0, 0, 0)	66	213107300002003
919	6	8	60000	1	48134,23,	8, 3, 0, 0, 0, 0, 0)	66	213102300003002
920	6	8	60000	1	96136,26,	8, 2, 0, 0, 0, 0, 0)	68	213203300002003
921	6	8	60000	1	96136,26,	8, 2, 0, 0, 0, 0, 0)	68	213203300003002
922	6	8	60000	1	96134,23,	8, 3, 0, 0, 0, 0, 0)	66	213201300002003
923	6	8	60000	1	96134,23,	8, 3, 0, 0, 0, 0, 0)	66	213201300003002
924	6	8	60000	1	96136,26,	8, 2, 0, 0, 0, 0, 0)	68	213307300002003
925	6	8	60000	1	144136,26,	8, 2, 0, 0, 0, 0, 0)	68	213307300003002
926	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	222103700002002
927	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	222103700003003
928	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	222103700002003
929	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	222103700003002
930	6	8	60000	1	96134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	222202700002002
931	6	8	60000	1	192136,26,	8, 2, 0, 0, 0, 0, 0)	68	222202700003003
932	6	8	60000	1	192136,26,	8, 2, 0, 0, 0, 0, 0)	68	222202700002003
933	6	8	60000	1	240136,26,	8, 2, 0, 0, 0, 0, 0)	68	222202700003002
934	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	222301700002002
935	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	222301700003003
936	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	222301700002003
937	6	8	60000	1	144135,24,	9, 2, 0, 0, 0, 0, 0)	68	222301700003002
938	6	8	60000	1	48133,21,	9, 3, 0, 0, 0, 0, 0)	66	312702700002003
939	6	8	60000	1	48133,21,	9, 3, 0, 0, 0, 0, 0)	66	312702700003002
940	6	8	60000	1	96133,21,	9, 3, 0, 0, 0, 0, 0)	66	312702700002002
941	6	8	60000	1	192135,25,	7, 3, 0, 0, 0, 0, 0)	66	312702700003003
942	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	312703700002003
943	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	312703700003002
944	6	8	60000	1	144135,24,	9, 2, 0, 0, 0, 0, 0)	68	312703700002002
945	6	8	60000	1	264137,28,	7, 2, 0, 0, 0, 0, 0)	68	312203300003003
946	6	8	60000	1	96133,21,	9, 3, 0, 0, 0, 0, 0)	66	312201700002003
947	6	8	60000	1	96133,21,	9, 3, 0, 0, 0, 0, 0)	66	312201700003002
948	6	8	60000	1	96133,21,	9, 3, 0, 0, 0, 0, 0)	66	312201700002002
949	6	8	60000	1	240135,25,	7, 3, 0, 0, 0, 0, 0)	66	312201700003003
950	6	8	60000	1	144135,24,	9, 2, 0, 0, 0, 0, 0)	68	312302200002003
951	6	8	60000	1	96135,24,	9, 2, 0, 0, 0, 0, 0)	68	312302200003002
952	6	8	60000	1	144135,24,	9, 2, 0, 0, 0, 0, 0)	68	312307300002002
953	6	8	60000	1	264137,28,	7, 2, 0, 0, 0, 0, 0)	68	312302700003003
954	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	321103700002003
955	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	321103700003002
956	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	321103700002002
957	6	8	60000	1	120135,24,	9, 2, 0, 0, 0, 0, 0)	68	321103300003003
958	6	8	60000	1	96134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	321202700002003
959	6	8	60000	1	96134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	321202700003002
960	6	8	60000	1	96134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	321202700002002
961	6	8	60000	1	240136,26,	8, 2, 0, 0, 0, 0, 0)	68	321202700003003
962	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	321301700002003
963	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	321301700003002
964	6	8	60000	1	48133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	321301700002002
965	6	8	60000	1	120135,24,	9, 2, 0, 0, 0, 0, 0)	68	321301700003003
966	6	8	60000	2	24128,12,12,	4, 0, 0, 0, 0, 0, 0)	64	211200020210010
967	6	8	60000	2	96131,17,11,	3, 0, 0, 0, 0, 0, 0)	66	222700020210010
968	6	8	60000	2	48130,16,10,	4, 0, 0, 0, 0, 0, 0)	64	211200030310010
969	6	8	60000	2	192133,21,	9, 3, 0, 0, 0, 0, 0)	66	222700030310010
970	6	8	60000	2	96132,19,10,	3, 0, 0, 0, 0, 0, 0)	66	231200030310010
971	6	8	60000	2	96131,17,11,	3, 0, 0, 0, 0, 0, 0)	66	312700030210010
972	6	8	60000	2	96131,17,11,	3, 0, 0, 0, 0, 0, 0)	66	321200030210010
973	6	8	60000	2	96131,17,11,	3, 0, 0, 0, 0, 0, 0)	66	312700020310010
974	6	8	60000	2	96131,17,11,	3, 0, 0, 0, 0, 0, 0)	66	321200020310010
975	6	8	60000	2	192135,24,	9, 2, 0, 0, 0, 0, 0)	68	222700030330010
976	6	8	60000	2	48134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	231200030330010
977	6	8	60000	2	96133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	312700020330010
978	6	8	60000	2	96133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	231300030220010
979	6	8	60000	2	96133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	213300020320010
980	6	8	60000	2	96133,20,11,	2, 0, 0, 0, 0, 0, 0)	68	213300030220010
981	6	8	60000	2	96134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	222700020220020
982	6	8	60000	2	192136,26,	8, 2, 0, 0, 0, 0, 0)	68	222700030320020
983	6	8	60000	2	192134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	222700020310020
984	6	8	60000	2	192134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	222700020320010
985	6	8	60000	2	192134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	222700030210020
986	6	8	60000	2	288134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	222700030220010
987	6	8	60000	2	48132,18,12,	2, 0, 0, 0, 0, 0, 0)	68	312700020210020
988	6	8	60000	2	96132,18,12,	2, 0, 0, 0, 0, 0, 0)	68	312700020220010
989	6	8	60000	2	120134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	312700030310020
990	6	8	60000	2	288134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	312700030320010
991	6	8	60000	2	48132,18,12,	2, 0, 0, 0, 0, 0, 0)	68	321300020220010
992	6	8	60000	2	168134,22,10,	2, 0, 0, 0, 0, 0, 0)	68	321300030320010
993	6	8	60000	4	192130,17,	8, 5, 0, 0, 0, 0, 0)	62	112201300020001
994	6	8	60000	4	384132,20,	8, 4, 0, 0, 0, 0, 0)	64	312102700002001
995	6	8	60000	4	384133,21,	9, 3, 0, 0, 0, 0, 0)	66	123202700002001
996	6	8	60000	4	96133,21,	9, 3, 0, 0, 0, 0, 0)	66	123301700002002
997	6	8	60000	4	384132,19,10,	3, 0, 0, 0, 0, 0, 0)	66	123301700002001
998	6	8	60000	4	192133,22,	7, 4, 0, 0, 0, 0, 0)	64	213201700002002
999	6	8	60000	4	768132,20,	8, 4, 0, 0, 0, 0, 0)	64	213201700002001
1000	6	8	60000	4	192128,14,	8, 6, 0, 0, 0, 0, 0)	60	211201200010001
1001	6	8	60000	4	192130,17,	8, 5, 0, 0, 0, 0, 0)	62	211201300010002
1002	6	8	60000	4	192131,19,	7, 5, 0, 0, 0, 0, 0)	62	211201700002002
1003	6	8	60000	4	384130,17,	8, 5, 0, 0, 0, 0, 0)	62	211201700002001
1004	6	8	60000	4	768130,17,	8, 5, 0, 0, 0, 0, 0)	62	312201200010001
1005	6	8	60000	4	768132,20,	8, 4, 0, 0, 0, 0, 0)	64	312201700010002
1006	6	8	60000	4	768133,22,	7, 4, 0, 0, 0, 0, 0)	64	312201700020002
1007	6	8	60000	4	1536132,20,	8, 4, 0, 0, 0, 0, 0)	64	312201700020001
1008	6	8	60000	4	192134,23,	8, 3, 0, 0, 0, 0, 0)	66	213203300020001
1009	6	8	60000	4	288135,25,	7, 3, 0, 0, 0, 0, 0)	66	213302700002002
1010	6	8	60000	4	1152134,23,	8, 3, 0, 0, 0, 0, 0)	66	213302700002001
1011	6	8	60000	4	576135,25,	7, 3, 0, 0, 0, 0, 0)	66	222702700002002
1012	6	8	60000	4	1344134,23,	8, 3, 0, 0, 0, 0, 0)	66	222202700002001
1013	6	8	60000	4	384132,20,	8, 4, 0, 0, 0, 0, 0)	64	222702700010001
1014	6	8	60000	4	384134,23,	8, 3, 0, 0, 0, 0, 0)	66	222202700010002
1015	6	8	60000	4	768131,18,	9, 4, 0, 0, 0, 0, 0)	64	222301700010001
1016	6	8	60000	4	192133,21,	9, 3, 0, 0, 0, 0, 0)	66	222301700010003
1017	6	8	60000	4	768133,21,	9, 3, 0, 0, 0, 0, 0)	66	222301700010002
1018	6	8	60000	4	1152134,23,	8, 3, 0, 0, 0, 0, 0)	66	222301700020002

GRAPH	N	L	C	SYMMERY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1019	6	8	60000	4	1920(33,21,9,3,0,0,0,0,0,01	66	272301300020001	
1020	6	8	60000	4	576(32,20,8,4,0,0,0,0,0,0)	64	312302200010001	
1021	6	8	60000	4	576(34,23,8,3,0,0,0,0,0,0)	66	312302300010002	
1022	6	8	60000	4	576(35,25,7,3,0,0,0,0,0,0)	66	312302200020002	
1023	6	8	60000	4	1152(34,23,8,3,0,0,0,0,0,0)	66	312302300020001	
1024	6	8	60000	4	48(30,16,10,4,0,0,0,0,0,0)	64	321301100010002	
1025	6	8	60000	4	384(30,16,10,4,0,0,0,0,0,0)	64	321301200010001	
1026	6	8	60000	4	192(32,19,10,3,0,0,0,0,0,0)	66	321301200010003	
1027	6	8	60000	4	384(32,19,10,3,0,0,0,0,0,0)	66	321301300010002	
1028	6	8	60000	4	480(33,21,9,3,0,0,0,0,0,0)	66	321301200020002	
1029	6	8	60000	4	672(32,19,10,3,0,0,0,0,0,0)	66	321301300020001	
1030	6	8	60000	4	384(28,14,8,6,0,0,0,0,0,0)	60	211200100102100	
1031	6	8	60000	4	384(28,14,8,6,0,0,0,0,0,0)	60	121200100102100	
1032	6	8	60000	4	768(30,17,8,5,0,0,0,0,0,0)	62	121200100103200	
1033	6	8	60000	4	768(30,17,8,5,0,0,0,0,0,0)	62	211200100103200	
1034	6	8	60000	4	384(30,17,8,5,0,0,0,0,0,0)	62	211300100202100	
1035	6	8	60000	4	384(30,17,8,5,0,0,0,0,0,0)	62	121300100202100	
1036	6	8	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	121300100203200	
1037	6	8	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	211300100203200	
1038	6	8	60000	4	384(31,19,7,5,0,0,0,0,0,0)	62	211200200202100	
1039	6	8	60000	4	384(31,19,7,5,0,0,0,0,0,0)	62	121200200202100	
1040	6	8	60000	4	768(33,22,7,4,0,0,0,0,0,0)	64	121200200203200	
1041	6	8	60000	4	768(33,22,7,4,0,0,0,0,0,0)	64	211200200203200	
1042	6	8	60000	4	768(30,17,8,5,0,0,0,0,0,0)	62	211300200102100	
1043	6	8	60000	4	768(30,17,8,5,0,0,0,0,0,0)	62	121300200102100	
1044	6	8	60000	4	1536(32,20,8,4,0,0,0,0,0,0)	64	121300200103200	
1045	6	8	60000	4	1536(32,20,8,4,0,0,0,0,0,0)	64	211300200103200	
1046	6	8	60000	4	384(30,16,10,4,0,0,0,0,0,0)	64	312200100103100	
1047	6	8	60000	4	768(31,18,9,4,0,0,0,0,0,0)	64	312200100102200	
1048	6	8	60000	4	384(30,16,10,4,0,0,0,0,0,0)	64	132200100103100	
1049	6	8	60000	4	384(32,19,10,3,0,0,0,0,0,0)	66	312300100203100	
1050	6	8	60000	4	768(33,21,9,3,0,0,0,0,0,0)	66	312300100202200	
1051	6	8	60000	4	384(32,19,10,3,0,0,0,0,0,0)	66	132300100203100	
1052	6	8	60000	4	384(33,21,9,3,0,0,0,0,0,0)	66	312200200203100	
1053	6	8	60000	4	768(34,23,8,3,0,0,0,0,0,0)	66	312200200202200	
1054	6	8	60000	4	384(33,21,9,3,0,0,0,0,0,0)	66	132200200203100	
1055	6	8	60000	4	768(32,19,10,3,0,0,0,0,0,0)	66	312300200103100	
1056	6	8	60000	4	1536(33,21,9,3,0,0,0,0,0,0)	66	312300200102200	
1057	6	8	60000	4	768(32,19,10,3,0,0,0,0,0,0)	66	132300200103100	
1058	6	8	60000	4	192(30,17,8,5,0,0,0,0,0,0)	62	321100100202100	
1059	6	8	60000	4	288(32,20,8,4,0,0,0,0,0,0)	64	321100100203200	
1060	6	8	60000	4	288(32,20,8,4,0,0,0,0,0,0)	64	231100100203200	
1061	6	8	60000	4	192(30,17,8,5,0,0,0,0,0,0)	62	231100100202100	
1062	6	8	60000	4	1536(30,17,8,5,0,0,0,0,0,0)	62	321200100102100	
1063	6	8	60000	4	2112(32,20,8,4,0,0,0,0,0,0)	64	321200100103200	
1064	6	8	60000	4	2112(32,20,8,4,0,0,0,0,0,0)	64	231200100103200	
1065	6	8	60000	4	1536(30,17,8,5,0,0,0,0,0,0)	62	231200100102100	
1066	6	8	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	321200100302100	
1067	6	8	60000	4	1152(34,23,8,3,0,0,0,0,0,0)	66	321200100303200	
1068	6	8	60000	4	1152(34,23,8,3,0,0,0,0,0,0)	66	231200100303200	
1069	6	8	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	231200100302100	
1070	6	8	60000	4	1536(32,20,8,4,0,0,0,0,0,0)	64	321300100202100	
1071	6	8	60000	4	1920(34,23,8,3,0,0,0,0,0,0)	66	321300100203200	
1072	6	8	60000	4	2112(34,23,8,3,0,0,0,0,0,0)	66	231300100203200	
1073	6	8	60000	4	1536(32,20,8,4,0,0,0,0,0,0)	64	231300100202100	
1074	6	8	60000	4	1920(33,22,7,4,0,0,0,0,0,0)	64	321200200202100	
1075	6	8	60000	4	2496(35,25,7,3,0,0,0,0,0,0)	66	321200200203200	
1076	6	8	60000	4	2496(35,25,7,3,0,0,0,0,0,0)	66	231200200203200	
1077	6	8	60000	4	1920(33,22,7,4,0,0,0,0,0,0)	64	231200200202100	
1078	6	8	60000	4	2688(32,20,8,4,0,0,0,0,0,0)	64	321300200102100	
1079	6	8	60000	4	3264(34,23,8,3,0,0,0,0,0,0)	66	321300200103200	
1080	6	8	60000	4	3456(34,23,8,3,0,0,0,0,0,0)	66	231300200103200	
1081	6	8	60000	4	2688(32,20,8,4,0,0,0,0,0,0)	64	231300200102100	
1082	6	8	60000	4	768(31,18,9,4,0,0,0,0,0,0)	64	222200100103100	
1083	6	8	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	222200100102200	
1084	6	8	60000	4	192(33,21,9,3,0,0,0,0,0,0)	66	222200100303100	
1085	6	8	60000	4	192(34,23,8,3,0,0,0,0,0,0)	66	222200100302200	
1086	6	8	60000	4	768(33,21,9,3,0,0,0,0,0,0)	66	222300100203100	
1087	6	8	60000	4	768(34,23,8,3,0,0,0,0,0,0)	66	222300100202200	
1088	6	8	60000	4	1152(34,23,8,3,0,0,0,0,0,0)	66	222200200203100	
1089	6	8	60000	4	1152(35,25,7,3,0,0,0,0,0,0)	66	222200200202200	
1090	6	8	60000	4	1920(33,21,9,3,0,0,0,0,0,0)	66	222300200103100	
1091	6	8	60000	4	1824(34,23,8,3,0,0,0,0,0,0)	66	222300200102200	
1092	6	8	60000	2	48(34,22,10,2,0,0,0,0,0,0)	68	211300300002033	
1093	6	8	60000	2	96(37,27,9,1,0,0,0,0,0,0)	70	222300300002033	
1094	6	8	60000	2	96(37,27,9,1,0,0,0,0,0,0)	70	312300300003033	
1095	6	8	60000	2	96(35,23,11,1,0,0,0,0,0,0)	70	321300200003032	
1096	6	8	60000	2	144(37,27,9,1,0,0,0,0,0,0)	70	321300300003033	
1097	6	8	60000	4	192(35,24,9,2,0,0,0,0,0,0)	68	123202300000203	
1098	6	8	60000	4	192(35,24,9,2,0,0,0,0,0,0)	68	222301300000302	
1099	6	8	60000	4	192(36,26,8,2,0,0,0,0,0,0)	68	222202300000302	
1100	6	8	60000	4	48(34,22,10,2,0,0,0,0,0,0)	68	222202300000202	
1101	6	8	60000	4	192(36,26,8,2,0,0,0,0,0,0)	68	222202300000203	
1102	6	8	60000	4	768(31,18,10,2,1,0,0,0,0,0)	64	121321300000010	
1103	6	8	60000	4	96(28,12,13,2,1,0,0,0,0,0)	64	121321100000010	
1104	6	8	60000	4	768(30,16,11,2,1,0,0,0,0,0)	64	121321200000010	
1105	6	8	60000	4	2880(33,22,8,2,1,0,0,0,0,0)	64	121321300000020	
1106	6	8	60000	4	1440(32,20,9,2,1,0,0,0,0,0)	64	121321200000020	
1107	6	8	60000	4	1248(34,24,7,2,1,0,0,0,0,0)	64	121321300000030	
1108	6	8	60000	4	48(30,16,12,0,2,0,0,0,0,0)	64	121121200000020	
1109	6	8	60000	4	192(31,18,11,0,2,0,0,0,0,0)	64	121121300000020	
1110	6	8	60000	4	192(32,20,10,0,2,0,0,0,0,0)	64	121121300000030	
1111	6	8	60000	4	768(33,22,8,2,1,0,0,0,0,0)	64	321121300000020	
1112	6	8	60000	4	192(30,16,11,2,1,0,0,0,0,0)	64	211132200000010	
1113	6	8	60000	4	768(32,20,9,2,1,0,0,0,0,0)	64	321121200000020	
1114	6	8	60000	4	1536(34,24,7,2,1,0,0,0,0,0)	64	321121300000030	
1115	6	8	60000	4	384(31,18,10,2,1,0,0,0,0,0)	64	211132300000010	
1116	6	8	60000	4	1536(33,22,8,2,1,0,0,0,0,0)	64	211132300000020	
1117	6	8	60000	4	768(31,19,8,3,1,0,0,0,0,0)	62	211221300000010	
1118	6	8	60000	4	96(28,13,11,3,1,0,0,0,0,0)	62	211221200000010	
1119	6	8	60000	4	768(30,17,9,3,1,0,0,0,0,0)	62	211221300000020	
1120	6	8	60000	4	2688(33,23,6,3,1,0,0,0,0,0)	62	211221200000020	
1121	6	8	60000	4	1440(32,21,7,3,1,0,0,0,0,0)	62	211221200000020	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODF	TERM	GRAPH MATRIX
1122	6	8	60000	4	1344(34,25,5,	3,1,0,0,0,0)	62	211221300000030
1123	6	8	60000	4	1920(34,23,9,	1,1,0,0,0,0)	66	231221300000020
1124	6	8	60000	4	384(31,17,12,	1,1,0,0,0,0)	66	121232000000010
1125	6	8	60000	4	1920(33,21,10,	1,1,0,0,0,0)	66	231221200000020
1126	6	8	60000	4	2496(35,25,8,	1,1,0,0,0,0)	66	231221300000030
1127	6	8	60000	4	576(32,19,11,	1,1,0,0,0,0)	66	121232000000010
1128	6	8	60000	4	2688(34,23,9,	1,1,0,0,0,0)	66	121232000000020
1129	6	8	60000	4	192(30,16,11,	2,1,0,0,0,0)	64	112231200000010
1130	6	8	60000	4	384(31,18,10,	2,1,0,0,0,0)	64	112231300000010
1131	6	8	60000	4	768(32,20,9,	2,1,0,0,0,0)	64	312211200000020
1132	6	8	60000	4	1344(33,22,8,	2,1,0,0,0,0)	64	112231300000020
1133	6	8	60000	4	768(33,22,8,	2,1,0,0,0,0)	64	312211300000020
1134	6	8	60000	4	1344(34,24,7,	2,1,0,0,0,0)	64	312211300000030
1135	6	8	60000	4	384(33,21,10,	1,1,0,0,0,0)	66	222131200000020
1136	6	8	60000	4	576(34,23,9,	1,1,0,0,0,0)	66	222131300000020
1137	6	8	60000	4	768(34,23,9,	1,1,0,0,0,0)	66	312122300000020
1138	6	8	60000	4	1152(35,25,8,	1,1,0,0,0,0)	66	222131300000030
1139	6	8	60000	4	192(33,20,12,	0,1,0,0,0,0)	68	132231200000020
1140	6	8	60000	4	576(34,22,11,	0,1,0,0,0,0)	68	132231300000020
1141	6	8	60000	4	336(35,24,10,	0,1,0,0,0,0)	68	132231300000030
1142	6	8	60000	4	24(30,16,12,	0,2,0,0,0,0)	64	112211200000020
1143	6	8	60000	4	96(31,18,11,	0,2,0,0,0,0)	64	112211300000020
1144	6	8	60000	4	96(32,20,10,	0,2,0,0,0,0)	64	112211300000030
1145	6	8	60000	4	480(33,21,10,	1,1,0,0,0,0)	66	222311200000020
1146	6	8	60000	4	480(34,23,9,	1,1,0,0,0,0)	66	222311300000020
1147	6	8	60000	4	96(31,17,12,	1,1,0,0,0,0)	66	112322000000010
1148	6	8	60000	4	960(34,23,9,	1,1,0,0,0,0)	66	112322300000020
1149	6	8	60000	4	864(35,25,8,	1,1,0,0,0,0)	66	222311300000030
1150	6	8	60000	4	192(32,19,11,	1,1,0,0,0,0)	66	112322300000010
1151	6	8	60000	4	384(34,25,5,	3,1,0,0,0,0)	62	222111300000030
1152	6	8	60000	4	96(31,19,8,	3,1,0,0,0,0)	62	112122300000010
1153	6	8	60000	4	384(33,23,6,	3,1,0,0,0,0)	62	112122300000020
1154	6	8	60000	4	384(33,21,10,	1,1,0,0,0,0)	66	213221200000020
1155	6	8	60000	4	576(34,22,11,	0,1,0,0,0,0)	68	123321300000020
1156	6	8	60000	4	1152(34,23,9,	1,1,0,0,0,0)	66	213221300000020
1157	6	8	60000	4	768(35,25,8,	1,1,0,0,0,0)	66	213221300000030
1158	6	8	60000	4	192(33,20,12,	0,1,0,0,0,0)	68	123321200000020
1159	6	8	60000	4	432(35,24,10,	0,1,0,0,0,0)	68	123321300000030
1160	6	8	60000	4	96(32,20,9,	2,1,0,0,0,0)	64	123121200000020
1161	6	8	60000	4	384(33,22,8,	2,1,0,0,0,0)	64	123121300000020
1162	6	8	60000	4	384(34,24,7,	2,1,0,0,0,0)	64	123121300000030
1163	6	8	60000	4	192(33,20,12,	0,1,0,0,0,0)	68	231132200000020
1164	6	8	60000	4	576(34,22,11,	0,1,0,0,0,0)	68	231132300000020
1165	6	8	60000	4	432(35,24,10,	0,1,0,0,0,0)	68	231132300000030
1166	6	8	60000	4	1152(36,26,9,	0,1,0,0,0,0)	68	222222300000020
1167	6	8	60000	4	432(35,24,10,	0,1,0,0,0,0)	68	222222200000020
1168	6	8	60000	4	672(37,28,8,	0,1,0,0,0,0)	68	222222300000030
1169	6	8	60000	6	288(28,12,13,	2,1,0,0,0,0)	64	312211100000000
1170	6	8	60000	6	1152(30,16,11,	2,1,0,0,0,0)	64	312211100000002
1171	6	8	60000	6	1152(31,18,10,	2,1,0,0,0,0)	64	312211100000003
1172	6	8	60000	6	2304(30,16,11,	2,1,0,0,0,0)	64	312211200000001
1173	6	8	60000	6	7488(32,20,9,	2,1,0,0,0,0)	64	312211200000002
1174	6	8	60000	6	6048(33,22,8,	2,1,0,0,0,0)	64	312211200000003
1175	6	8	60000	6	3456(31,18,10,	2,1,0,0,0,0)	64	312211300000001
1176	6	8	60000	6	9504(33,22,8,	2,1,0,0,0,0)	64	312211300000002
1177	6	8	60000	6	6624(34,24,7,	2,1,0,0,0,0)	64	312211300000003
1178	6	8	60000	6	144(28,12,14,	0,2,0,0,0,0)	64	112211200000001
1179	6	8	60000	6	504(30,16,12,	0,2,0,0,0,0)	64	112211200000002
1180	6	8	60000	6	432(31,18,11,	0,2,0,0,0,0)	64	112211200000003
1181	6	8	60000	6	1008(32,20,10,	0,2,0,0,0,0)	64	112211300000001
1182	6	8	60000	6	432(29,14,13,	0,2,0,0,0,0)	64	112211300000002
1183	6	8	60000	6	1296(31,18,11,	0,2,0,0,0,0)	64	112211300000003
1184	6	8	60000	6	576(30,16,11,	2,1,0,0,0,0)	64	123121200000001
1185	6	8	60000	6	2016(32,20,9,	2,1,0,0,0,0)	64	123121200000002
1186	6	8	60000	6	1728(33,22,8,	2,1,0,0,0,0)	64	123121200000003
1187	6	8	60000	6	1728(31,18,10,	2,1,0,0,0,0)	64	123121300000001
1188	6	8	60000	6	4896(33,22,8,	2,1,0,0,0,0)	64	123121300000002
1189	6	8	60000	6	3744(34,24,7,	2,1,0,0,0,0)	64	123121300000003
1190	6	8	60000	6	144(28,13,11,	3,1,0,0,0,0)	62	222111100000001
1191	6	8	60000	6	576(30,17,9,	3,1,0,0,0,0)	62	222111100000002
1192	6	8	60000	6	576(31,19,8,	3,1,0,0,0,0)	62	222111100000003
1193	6	8	60000	6	1152(30,17,9,	3,1,0,0,0,0)	62	222111200000001
1194	6	8	60000	6	3744(32,21,7,	3,1,0,0,0,0)	62	222111200000002
1195	6	8	60000	6	2880(33,23,6,	3,1,0,0,0,0)	62	222111200000003
1196	6	8	60000	6	3456(34,25,5,	3,1,0,0,0,0)	62	222111300000001
1197	6	8	60000	6	1728(31,19,8,	3,1,0,0,0,0)	62	222111300000002
1198	6	8	60000	6	4608(33,23,6,	3,1,0,0,0,0)	62	222111300000003
1199	6	8	60000	6	1152(31,17,12,	1,1,0,0,0,0)	66	213221200000001
1200	6	8	60000	6	4032(33,21,10,	1,1,0,0,0,0)	66	213221200000002
1201	6	8	60000	6	3456(34,23,9,	1,1,0,0,0,0)	66	213221200000003
1202	6	8	60000	6	2592(32,19,11,	1,1,0,0,0,0)	66	213221300000001
1203	6	8	60000	6	6912(34,23,9,	1,1,0,0,0,0)	66	213221300000002
1204	6	8	60000	6	5472(35,25,8,	1,1,0,0,0,0)	66	213221300000003
1205	6	8	60000	6	288(31,17,12,	1,1,0,0,0,0)	66	312122200000001
1206	6	8	60000	6	1008(33,21,10,	1,1,0,0,0,0)	66	312122200000002
1207	6	8	60000	6	864(34,23,9,	1,1,0,0,0,0)	66	312122200000003
1208	6	8	60000	6	864(32,19,11,	1,1,0,0,0,0)	66	312122300000001
1209	6	8	60000	6	2592(34,23,9,	1,1,0,0,0,0)	66	312122300000002
1210	6	8	60000	6	1872(35,25,8,	1,1,0,0,0,0)	66	312122300000003
1211	6	8	60000	6	576(31,16,14,	0,1,0,0,0,0)	68	123321200000001
1212	6	8	60000	6	2016(33,20,12,	0,1,0,0,0,0)	68	123321200000002
1213	6	8	60000	6	1728(34,22,11,	0,1,0,0,0,0)	68	123321200000003
1214	6	8	60000	6	1296(32,18,13,	0,1,0,0,0,0)	68	123321300000001
1215	6	8	60000	6	3600(34,22,11,	0,1,0,0,0,0)	68	123321300000002
1216	6	8	60000	6	2736(35,24,10,	0,1,0,0,0,0)	68	123321300000003
1217	6	8	60000	6	144(31,19,8,	3,1,0,0,0,0)	62	112122300000001
1218	6	8	60000	6	432(33,23,6,	3,1,0,0,0,0)	62	112122300000002
1219	6	8	60000	6	336(34,25,5,	3,1,0,0,0,0)	62	112122300000003
1220	6	8	60000	6	144(29,13,14,	1,1,0,0,0,0)	66	222311100000000
1221	6	8	60000	6	576(31,17,12,	1,1,0,0,0,0)	66	222311100000002
1222	6	8	60000	6	576(32,19,11,	1,1,0,0,0,0)	66	222311100000003
1223	6	8	60000	6	1440(31,17,12,	1,1,0,0,0,0)	66	222311200000000
1224	6	8	60000	6	4752(33,21,10,	1,1,0,0,0,0)	66	222311200000002

GRAPH	N	L	C	SYMMERY NUMER	COUNT	COEF	TFRM	GRAPH MATRIX
1225	6	8	60000	6	3744(34,23,9,1,1,0,0,0,0,0)	66	2273112000000003	
1226	6	8	60000	6	2160(32,19,11,1,1,0,0,0,0,0)	66	2273113000000001	
1227	6	8	60000	6	5616(34,23,9,1,1,0,0,0,0,0)	66	2273113000000002	
1228	6	8	60000	6	4176(35,25,8,1,1,0,0,0,0,0)	66	2273113000000003	
1229	6	8	60000	6	288(33,20,12,0,1,0,0,0,0,0)	68	2272222000000001	
1230	6	8	60000	6	1008(35,24,10,0,1,0,0,0,0,0)	68	2272222000000002	
1231	6	8	60000	6	864(36,26,9,0,1,0,0,0,0,0)	68	2272222000000003	
1232	6	8	60000	6	576(34,27,11,0,1,0,0,0,0,0)	68	2222223000000001	
1233	6	8	60000	6	1440(36,26,9,0,1,0,0,0,0,0)	68	2272223000000002	
1234	6	8	60000	6	1200(37,28,8,0,1,0,0,0,0,0)	68	2222223000000003	
1235	6	8	60000	12	1152(32,20,9,2,1,0,0,0,0,0)	64	3122117000200000	
1236	6	8	60000	12	4608(33,22,8,2,1,0,0,0,0,0)	64	3127113000200000	
1237	6	8	60000	12	3456(34,24,7,2,1,0,0,0,0,0)	64	3127113000300000	
1238	6	8	60000	12	144(32,20,10,0,2,0,0,0,0,0)	64	1122113000300000	
1239	6	8	60000	12	576(34,24,7,2,1,0,0,0,0,0)	64	1231213000300000	
1240	6	8	60000	12	576(32,21,7,3,1,0,0,0,0,0)	62	2271112000200000	
1241	6	8	60000	12	2304(33,23,6,3,1,0,0,0,0,0)	62	2221113000200000	
1242	6	8	60000	12	1728(34,25,5,3,1,0,0,0,0,0)	62	2271113000300000	
1243	6	8	60000	12	1152(34,23,9,1,1,0,0,0,0,0)	66	2132713000200000	
1244	6	8	60000	12	1728(35,25,8,1,1,0,0,0,0,0)	66	2132713000300000	
1245	6	8	60000	12	288(35,25,8,1,1,0,0,0,0,0)	66	3121273000300000	
1246	6	8	60000	12	576(34,22,11,0,1,0,0,0,0,0)	68	1233213000200000	
1247	6	8	60000	12	864(35,24,10,0,1,0,0,0,0,0)	68	1233213000300000	
1248	6	8	60000	12	288(32,19,11,1,1,0,0,0,0,0)	66	2223113000100000	
1249	6	8	60000	12	1152(33,21,10,1,1,0,0,0,0,0)	66	2223113000200000	
1250	6	8	60000	12	4320(34,23,9,1,1,0,0,0,0,0)	66	2273113000200000	
1251	6	8	60000	12	2880(35,25,8,1,1,0,0,0,0,0)	66	2223113000300000	
1252	6	8	60000	12	576(36,26,9,0,1,0,0,0,0,0)	68	2272223000200000	
1253	6	8	60000	12	576(37,28,8,0,1,0,0,0,0,0)	68	2272223000300000	
1254	6	8	60000	4	384(32,20,8,4,0,0,0,0,0,0)	64	1321203200000001	
1255	6	8	60000	4	1152(34,24,6,4,0,0,0,0,0,0)	64	1321203200000002	
1256	6	8	60000	4	768(35,26,5,4,0,0,0,0,0,0)	64	1321203200000003	
1257	6	8	60000	4	384(32,20,8,4,0,0,0,0,0,0)	64	1232103200000001	
1258	6	8	60000	4	1152(34,24,6,4,0,0,0,0,0,0)	64	1232103200000002	
1259	6	8	60000	4	960(35,26,5,4,0,0,0,0,0,0)	64	1232103200000003	
1260	6	8	60000	4	384(32,20,8,4,0,0,0,0,0,0)	64	1231203200000001	
1261	6	8	60000	4	1152(34,24,6,4,0,0,0,0,0,0)	64	1231203200000002	
1262	6	8	60000	4	960(35,26,5,4,0,0,0,0,0,0)	64	1231203200000003	
1263	6	8	60000	4	384(32,20,8,4,0,0,0,0,0,0)	64	1322103200000001	
1264	6	8	60000	4	1152(34,24,6,4,0,0,0,0,0,0)	64	1322103200000002	
1265	6	8	60000	4	768(35,26,5,4,0,0,0,0,0,0)	64	1322103200000003	
1266	6	8	60000	4	192(32,20,8,4,0,0,0,0,0,0)	64	1233202100000001	
1267	6	8	60000	4	768(34,24,6,4,0,0,0,0,0,0)	64	1233202100000002	
1268	6	8	60000	4	768(35,26,5,4,0,0,0,0,0,0)	64	1233202100000003	
1269	6	8	60000	4	1152(34,23,8,3,0,0,0,0,0,0)	66	1233203200000001	
1270	6	8	60000	4	3264(36,27,6,3,0,0,0,0,0,0)	66	1233203200000002	
1271	6	8	60000	4	2304(37,29,5,3,0,0,0,0,0,0)	66	1233203200000003	
1272	6	8	60000	4	96(32,20,8,4,0,0,0,0,0,0)	64	1232302100000001	
1273	6	8	60000	4	384(34,24,6,4,0,0,0,0,0,0)	64	1232302100000002	
1274	6	8	60000	4	384(35,26,5,4,0,0,0,0,0,0)	64	1232302100000003	
1275	6	8	60000	4	576(34,23,8,3,0,0,0,0,0,0)	66	1232303200000001	
1276	6	8	60000	4	1632(36,27,6,3,0,0,0,0,0,0)	66	1232303200000002	
1277	6	8	60000	4	1344(37,29,5,3,0,0,0,0,0,0)	66	1232303200000003	
1278	6	8	60000	4	96(32,20,8,4,0,0,0,0,0,0)	64	1323202100000001	
1279	6	8	60000	4	384(34,24,6,4,0,0,0,0,0,0)	64	1323202100000002	
1280	6	8	60000	4	384(35,26,5,4,0,0,0,0,0,0)	64	1323202100000003	
1281	6	8	60000	4	576(34,23,8,3,0,0,0,0,0,0)	66	1323203200000001	
1282	6	8	60000	4	1632(36,27,6,3,0,0,0,0,0,0)	66	1323203200000002	
1283	6	8	60000	4	960(37,29,5,3,0,0,0,0,0,0)	66	1323203200000003	
1284	6	8	60000	6	288(35,26,5,4,0,0,0,0,0,0)	64	2133021020300000	
1285	6	8	60000	6	144(34,24,6,4,0,0,0,0,0,0)	64	3123021020200000	
1286	6	8	60000	6	288(35,26,5,4,0,0,0,0,0,0)	64	3123021020300000	
1287	6	8	60000	6	144(34,24,6,4,0,0,0,0,0,0)	64	2132032010200000	
1288	6	8	60000	6	288(35,26,5,4,0,0,0,0,0,0)	64	2132032010300000	
1289	6	8	60000	6	576(34,24,6,4,0,0,0,0,0,0)	64	2133022010200000	
1290	6	8	60000	6	864(35,26,5,4,0,0,0,0,0,0)	64	2133022010300000	
1291	6	8	60000	6	144(32,20,8,4,0,0,0,0,0,0)	64	3123022010100000	
1292	6	8	60000	6	576(34,24,6,4,0,0,0,0,0,0)	64	3123022010200000	
1293	6	8	60000	6	576(35,26,5,4,0,0,0,0,0,0)	64	3123022010300000	
1294	6	8	60000	6	144(37,29,5,3,0,0,0,0,0,0)	66	2132032030300000	
1295	6	8	60000	6	288(36,27,6,3,0,0,0,0,0,0)	66	2132033020200000	
1296	6	8	60000	6	864(37,29,5,3,0,0,0,0,0,0)	66	2132033020300000	
1297	6	8	60000	6	864(36,27,6,3,0,0,0,0,0,0)	66	2133023020200000	
1298	6	8	60000	6	1296(37,29,5,3,0,0,0,0,0,0)	66	2133023020300000	
1299	6	8	60000	6	144(34,23,8,3,0,0,0,0,0,0)	66	3123023020100000	
1300	6	8	60000	6	576(36,27,6,3,0,0,0,0,0,0)	66	3123023020200000	
1301	6	8	60000	6	576(37,29,5,3,0,0,0,0,0,0)	66	3123023020300000	
1302	6	8	60000	1	24(28,14,8,6,0,0,0,0,0,0)	60	1121022001000001	
1303	6	8	60000	1	96(30,18,6,6,0,0,0,0,0,0)	60	1121022001000002	
1304	6	8	60000	1	96(31,20,5,6,0,0,0,0,0,0)	60	1121022001000003	
1305	6	8	60000	1	288(33,23,5,5,0,0,0,0,0,0)	62	1121023002000003	
1306	6	8	60000	1	96(30,17,8,5,0,0,0,0,0,0)	62	1121023002000001	
1307	6	8	60000	1	336(32,21,6,5,0,0,0,0,0,0)	62	1121023002000002	
1308	6	8	60000	1	48(31,18,9,4,0,0,0,0,0,0)	64	1122032002000001	
1309	6	8	60000	1	240(33,22,7,4,0,0,0,0,0,0)	64	1122032002000002	
1310	6	8	60000	1	240(34,24,6,4,0,0,0,0,0,0)	64	1122032002000003	
1311	6	8	60000	1	48(30,16,10,4,0,0,0,0,0,0)	64	1122033001000001	
1312	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	1122033001000002	
1313	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	1122033001000003	
1314	6	8	60000	1	48(30,16,10,4,0,0,0,0,0,0)	64	1231032001000001	
1315	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	1231032001000002	
1316	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	1231032001000003	
1317	6	8	60000	1	144(32,19,10,3,0,0,0,0,0,0)	66	1231033002000001	
1318	6	8	60000	1	456(34,23,8,3,0,0,0,0,0,0)	66	1231033002000002	
1319	6	8	60000	1	384(35,25,7,3,0,0,0,0,0,0)	66	1231033002000003	
1320	6	8	60000	1	48(32,19,10,3,0,0,0,0,0,0)	66	1232022002000001	
1321	6	8	60000	1	240(34,23,8,3,0,0,0,0,0,0)	66	1232022002000002	
1322	6	8	60000	1	240(35,25,7,3,0,0,0,0,0,0)	66	1232022002000003	
1323	6	8	60000	1	48(31,17,11,3,0,0,0,0,0,0)	66	1232023001000001	
1324	6	8	60000	1	192(33,21,9,3,0,0,0,0,0,0)	66	1232023001000002	
1325	6	8	60000	1	192(34,23,8,3,0,0,0,0,0,0)	66	1232023001000003	
1326	6	8	60000	1	74(28,14,8,6,0,0,0,0,0,0)	60	2111021002000001	
1327	6	8	60000	1	96(30,18,6,6,0,0,0,0,0,0)	60	2111021002000002	

GRAPH	N	L	C	SYMMETRY NUMBR	COUNT	CDEF	TRM	GRAPH MATRIX
1328	6	8	60000	1	96(31,20,5,6,0,0,0,0,0,0)	60	211102100200003	
1329	6	8	60000	1	288(33,23,5,5,0,0,0,0,0,0)	62	211102200300003	
1330	6	8	60000	1	96(30,17,8,5,0,0,0,0,0,0)	62	211102200300001	
1331	6	8	60000	1	336(32,21,6,5,0,0,0,0,0,0)	62	211102200300002	
1332	6	8	60000	1	24(28,14,8,6,0,0,0,0,0,0)	60	211102200100001	
1333	6	8	60000	1	96(30,18,6,6,0,0,0,0,0,0)	60	211102200100002	
1334	6	8	60000	1	96(31,20,5,6,0,0,0,0,0,0)	60	211102200100003	
1335	6	8	60000	1	288(33,23,5,5,0,0,0,0,0,0)	62	211102300200003	
1336	6	8	60000	1	96(30,17,8,5,0,0,0,0,0,0)	62	211102300200001	
1337	6	8	60000	1	336(32,21,6,5,0,0,0,0,0,0)	62	211102300200002	
1338	6	8	60000	1	48(30,16,10,4,0,0,0,0,0,0)	64	211203100300001	
1339	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	211203100300002	
1340	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	211203100300003	
1341	6	8	60000	1	480(34,24,6,4,0,0,0,0,0,0)	64	211203200200003	
1342	6	8	60000	1	96(31,18,9,4,0,0,0,0,0,0)	64	211203200200001	
1343	6	8	60000	1	480(33,22,7,4,0,0,0,0,0,0)	64	211203200200002	
1344	6	8	60000	1	48(30,16,10,4,0,0,0,0,0,0)	64	211203300100001	
1345	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	211203300100002	
1346	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	211203300100003	
1347	6	8	60000	1	48(30,17,8,5,0,0,0,0,0,0)	62	213102200100001	
1348	6	8	60000	1	192(32,21,6,5,0,0,0,0,0,0)	62	213102200100002	
1349	6	8	60000	1	192(33,23,5,5,0,0,0,0,0,0)	62	213102200100003	
1350	6	8	60000	1	96(32,20,8,4,0,0,0,0,0,0)	64	213102200300001	
1351	6	8	60000	1	336(34,24,6,4,0,0,0,0,0,0)	64	213102200300002	
1352	6	8	60000	1	288(35,26,5,4,0,0,0,0,0,0)	64	213102200300003	
1353	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	213102300200001	
1354	6	8	60000	1	624(34,24,6,4,0,0,0,0,0,0)	64	213102300200002	
1355	6	8	60000	1	528(35,26,5,4,0,0,0,0,0,0)	64	213102300200003	
1356	6	8	60000	1	96(33,21,9,3,0,0,0,0,0,0)	66	213203200200001	
1357	6	8	60000	1	480(35,25,7,3,0,0,0,0,0,0)	66	213203200200002	
1358	6	8	60000	1	480(36,27,6,3,0,0,0,0,0,0)	66	213203200200003	
1359	6	8	60000	1	72(32,19,10,3,0,0,0,0,0,0)	66	213203300100001	
1360	6	8	60000	1	288(34,23,8,3,0,0,0,0,0,0)	66	213203300100002	
1361	6	8	60000	1	288(35,25,7,3,0,0,0,0,0,0)	66	213203300100003	
1362	6	8	60000	1	48(31,18,9,4,0,0,0,0,0,0)	64	222103100200001	
1363	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	222103100200002	
1364	6	8	60000	1	192(34,24,6,4,0,0,0,0,0,0)	64	222103100200003	
1365	6	8	60000	1	192(33,21,9,3,0,0,0,0,0,0)	66	222103200300001	
1366	6	8	60000	1	624(35,25,7,3,0,0,0,0,0,0)	64	222103200300002	
1367	6	8	60000	1	480(36,27,6,3,0,0,0,0,0,0)	66	222103200300003	
1368	6	8	60000	1	96(31,18,9,4,0,0,0,0,0,0)	64	222103200100001	
1369	6	8	60000	1	384(33,22,7,4,0,0,0,0,0,0)	64	222103200100002	
1370	6	8	60000	1	384(34,24,6,4,0,0,0,0,0,0)	64	222103200100003	
1371	6	8	60000	1	288(33,21,9,3,0,0,0,0,0,0)	66	222103300200001	
1372	6	8	60000	1	864(35,25,7,3,0,0,0,0,0,0)	66	222103300200002	
1373	6	8	60000	1	768(36,27,6,3,0,0,0,0,0,0)	66	222103300200003	
1374	6	8	60000	1	48(32,19,10,3,0,0,0,0,0,0)	66	222202100300001	
1375	6	8	60000	1	192(34,23,8,3,0,0,0,0,0,0)	66	222202100300002	
1376	6	8	60000	1	192(35,25,7,3,0,0,0,0,0,0)	66	222202100300003	
1377	6	8	60000	1	144(33,21,9,3,0,0,0,0,0,0)	66	222202200200001	
1378	6	8	60000	1	720(35,25,7,3,0,0,0,0,0,0)	66	222202200200002	
1379	6	8	60000	1	672(36,27,6,3,0,0,0,0,0,0)	66	222202200200003	
1380	6	8	60000	1	96(32,19,10,3,0,0,0,0,0,0)	66	222202300100001	
1381	6	8	60000	1	384(34,23,8,3,0,0,0,0,0,0)	66	222202300100002	
1382	6	8	60000	1	384(35,25,7,3,0,0,0,0,0,0)	66	222202300100003	
1383	6	8	60000	1	48(30,17,9,5,0,0,0,0,0,0)	62	312102100200001	
1384	6	8	60000	1	192(32,21,6,5,0,0,0,0,0,0)	62	312102100200002	
1385	6	8	60000	1	192(33,23,5,5,0,0,0,0,0,0)	62	312102100200003	
1386	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	312102200300001	
1387	6	8	60000	1	624(34,24,6,4,0,0,0,0,0,0)	64	312102200300002	
1388	6	8	60000	1	528(35,26,5,4,0,0,0,0,0,0)	64	312102200300003	
1389	6	8	60000	1	48(30,17,8,5,0,0,0,0,0,0)	62	312102200100001	
1390	6	8	60000	1	192(32,21,6,5,0,0,0,0,0,0)	62	312102200100002	
1391	6	8	60000	1	192(33,23,5,5,0,0,0,0,0,0)	62	312102200100003	
1392	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	312102300200001	
1393	6	8	60000	1	672(34,24,6,4,0,0,0,0,0,0)	64	312102300200002	
1394	6	8	60000	1	528(35,26,5,4,0,0,0,0,0,0)	64	312102300200003	
1395	6	8	60000	1	72(32,19,10,3,0,0,0,0,0,0)	66	312203100300001	
1396	6	8	60000	1	288(34,23,8,3,0,0,0,0,0,0)	66	312203100300002	
1397	6	8	60000	1	288(35,25,7,3,0,0,0,0,0,0)	66	312203100300003	
1398	6	8	60000	1	144(33,21,9,3,0,0,0,0,0,0)	66	312203200200001	
1399	6	8	60000	1	720(35,25,7,3,0,0,0,0,0,0)	66	312203200200002	
1400	6	8	60000	1	672(36,27,6,3,0,0,0,0,0,0)	66	312203200200003	
1401	6	8	60000	1	72(32,19,10,3,0,0,0,0,0,0)	66	312203300100001	
1402	6	8	60000	1	288(34,23,8,3,0,0,0,0,0,0)	66	312203300100002	
1403	6	8	60000	1	288(35,25,7,3,0,0,0,0,0,0)	66	312203300100003	
1404	6	8	60000	1	48(30,16,10,4,0,0,0,0,0,0)	64	321103100200001	
1405	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	321103100200002	
1406	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	321103100200003	
1407	6	8	60000	1	144(32,19,10,3,0,0,0,0,0,0)	66	321103200300001	
1408	6	8	60000	1	456(34,23,8,3,0,0,0,0,0,0)	66	321103200300002	
1409	6	8	60000	1	336(35,25,7,3,0,0,0,0,0,0)	66	321103200300003	
1410	6	8	60000	1	48(30,16,10,4,0,0,0,0,0,0)	64	321103200100001	
1411	6	8	60000	1	192(32,20,8,4,0,0,0,0,0,0)	64	321103200100002	
1412	6	8	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	321103200100003	
1413	6	8	60000	1	144(32,19,10,3,0,0,0,0,0,0)	66	321103300200001	
1414	6	8	60000	1	456(34,23,8,3,0,0,0,0,0,0)	66	321103300200002	
1415	6	8	60000	1	384(35,25,7,3,0,0,0,0,0,0)	66	321103300200003	
1416	6	8	60000	1	48(31,17,11,3,0,0,0,0,0,0)	66	321202100300001	
1417	6	8	60000	1	192(33,21,9,3,0,0,0,0,0,0)	66	321202100300002	
1418	6	8	60000	1	192(34,23,8,3,0,0,0,0,0,0)	66	321202100300003	
1419	6	8	60000	1	96(32,19,10,3,0,0,0,0,0,0)	66	321202200200001	
1420	6	8	60000	1	480(34,23,8,3,0,0,0,0,0,0)	66	321202200200002	
1421	6	8	60000	1	432(35,25,7,3,0,0,0,0,0,0)	66	321202200200003	
1422	6	8	60000	1	48(31,17,11,3,0,0,0,0,0,0)	66	321202300100001	
1423	6	8	60000	1	192(33,21,9,3,0,0,0,0,0,0)	66	321202300100002	
1424	6	8	60000	1	192(34,23,8,3,0,0,0,0,0,0)	66	321202300100003	
1425	6	8	60000	1	24(30,18,6,6,0,0,0,0,0,0)	60	1121022001000020	
1426	6	8	60000	1	48(31,20,5,6,0,0,0,0,0,0)	60	1121022001000030	
1427	6	8	60000	1	96(32,21,6,5,0,0,0,0,0,0)	62	1121023002000020	
1428	6	8	60000	1	144(33,23,5,5,0,0,0,0,0,0)	62	1121023002000030	
1429	6	8	60000	1	240(34,24,6,4,0,0,0,0,0,0)	64	1122032002000030	
1430	6	8	60000	1	48(31,18,9,4,0,0,0,0,0,0)	64	1122032002000010	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1431	6	8	60000	1	240(33,22,	7, 4, 0, 0, 0, 0, 0)	64	112203200200020
1432	6	8	60000	1	144(33,22,	7, 4, 0, 0, 0, 0, 0)	64	112203300100030
1433	6	8	60000	1	96(32,20,	8, 4, 0, 0, 0, 0, 0)	64	112203300100020
1434	6	8	60000	1	48(32,20,	8, 4, 0, 0, 0, 0, 0)	64	123103200100020
1435	6	8	60000	1	96(33,22,	7, 4, 0, 0, 0, 0, 0)	64	123103200100030
1436	6	8	60000	1	144(34,23,	8, 3, 0, 0, 0, 0, 0)	66	123103300200020
1437	6	8	60000	1	216(35,25,	7, 3, 0, 0, 0, 0, 0)	66	123103300200030
1438	6	8	60000	1	144(34,23,	8, 3, 0, 0, 0, 0, 0)	66	123202200200020
1439	6	8	60000	1	192(35,25,	7, 3, 0, 0, 0, 0, 0)	66	123202200200030
1440	6	8	60000	1	48(33,21,	9, 3, 0, 0, 0, 0, 0)	66	123202300100020
1441	6	8	60000	1	96(34,23,	8, 3, 0, 0, 0, 0, 0)	66	123202300100030
1442	6	8	60000	1	24(28,14,	8, 6, 0, 0, 0, 0, 0)	60	211102100200010
1443	6	8	60000	1	96(30,18,	6, 6, 0, 0, 0, 0, 0)	60	211102100200020
1444	6	8	60000	1	96(31,20,	5, 6, 0, 0, 0, 0, 0)	60	211102100200030
1445	6	8	60000	1	48(30,17,	8, 5, 0, 0, 0, 0, 0)	62	211102200300010
1446	6	8	60000	1	192(32,21,	6, 5, 0, 0, 0, 0, 0)	62	211102200300020
1447	6	8	60000	1	192(33,23,	5, 5, 0, 0, 0, 0, 0)	62	211102200300030
1448	6	8	60000	1	24(30,18,	6, 6, 0, 0, 0, 0, 0)	60	211102200300020
1449	6	8	60000	1	48(31,20,	5, 6, 0, 0, 0, 0, 0)	60	211102200300030
1450	6	8	60000	1	96(32,21,	6, 5, 0, 0, 0, 0, 0)	62	211102300200020
1451	6	8	60000	1	144(33,23,	5, 5, 0, 0, 0, 0, 0)	62	211102300200030
1452	6	8	60000	1	288(33,22,	7, 4, 0, 0, 0, 0, 0)	64	211203100300030
1453	6	8	60000	1	96(30,16,	10, 4, 0, 0, 0, 0, 0)	64	211203100300010
1454	6	8	60000	1	336(32,20,	8, 4, 0, 0, 0, 0, 0)	64	211203100300020
1455	6	8	60000	1	480(34,24,	6, 4, 0, 0, 0, 0, 0)	64	211203200200030
1456	6	8	60000	1	96(31,18,	9, 4, 0, 0, 0, 0, 0)	64	211203200200010
1457	6	8	60000	1	480(33,22,	7, 4, 0, 0, 0, 0, 0)	64	211203200200020
1458	6	8	60000	1	144(33,22,	7, 4, 0, 0, 0, 0, 0)	64	211203300100030
1459	6	8	60000	1	96(32,20,	8, 4, 0, 0, 0, 0, 0)	64	211203300100020
1460	6	8	60000	1	48(32,21,	6, 5, 0, 0, 0, 0, 0)	62	213102200100020
1461	6	8	60000	1	96(33,23,	5, 5, 0, 0, 0, 0, 0)	62	213102200100030
1462	6	8	60000	1	48(32,20,	8, 4, 0, 0, 0, 0, 0)	64	213102200300010
1463	6	8	60000	1	192(34,24,	6, 4, 0, 0, 0, 0, 0)	64	213102200300020
1464	6	8	60000	1	192(35,26,	5, 4, 0, 0, 0, 0, 0)	64	213102200300030
1465	6	8	60000	1	192(34,24,	6, 4, 0, 0, 0, 0, 0)	64	213102300200020
1466	6	8	60000	1	288(35,26,	5, 4, 0, 0, 0, 0, 0)	64	213102300200030
1467	6	8	60000	1	96(33,21,	9, 3, 0, 0, 0, 0, 0)	66	213203200200010
1468	6	8	60000	1	432(35,25,	7, 3, 0, 0, 0, 0, 0)	66	213203200200020
1469	6	8	60000	1	384(36,27,	6, 3, 0, 0, 0, 0, 0)	66	213203200200030
1470	6	8	60000	1	144(34,23,	8, 3, 0, 0, 0, 0, 0)	66	213203300100020
1471	6	8	60000	1	168(35,25,	7, 3, 0, 0, 0, 0, 0)	66	213203300100030
1472	6	8	60000	1	48(31,18,	9, 4, 0, 0, 0, 0, 0)	64	222103100200010
1473	6	8	60000	1	192(33,22,	7, 4, 0, 0, 0, 0, 0)	64	222103100200020
1474	6	8	60000	1	192(34,24,	6, 4, 0, 0, 0, 0, 0)	64	222103100200030
1475	6	8	60000	1	96(33,21,	9, 3, 0, 0, 0, 0, 0)	66	222103200300010
1476	6	8	60000	1	384(35,25,	7, 3, 0, 0, 0, 0, 0)	66	222103200300020
1477	6	8	60000	1	384(36,27,	6, 3, 0, 0, 0, 0, 0)	66	222103200300030
1478	6	8	60000	1	96(33,22,	7, 4, 0, 0, 0, 0, 0)	64	222103200100020
1479	6	8	60000	1	192(34,24,	6, 4, 0, 0, 0, 0, 0)	64	222103200100030
1480	6	8	60000	1	288(35,25,	7, 3, 0, 0, 0, 0, 0)	66	222103300200020
1481	6	8	60000	1	432(36,27,	6, 3, 0, 0, 0, 0, 0)	66	222103300200030
1482	6	8	60000	1	48(32,19,	10, 3, 0, 0, 0, 0, 0)	66	222202100300010
1483	6	8	60000	1	240(34,23,	8, 3, 0, 0, 0, 0, 0)	66	222202100300020
1484	6	8	60000	1	240(35,25,	7, 3, 0, 0, 0, 0, 0)	66	222202100300030
1485	6	8	60000	1	48(33,21,	9, 3, 0, 0, 0, 0, 0)	66	222202200200010
1486	6	8	60000	1	480(35,25,	7, 3, 0, 0, 0, 0, 0)	66	222202200200020
1487	6	8	60000	1	528(36,27,	6, 3, 0, 0, 0, 0, 0)	66	222202200200030
1488	6	8	60000	1	96(34,23,	8, 3, 0, 0, 0, 0, 0)	66	222202300100020
1489	6	8	60000	1	192(35,25,	7, 3, 0, 0, 0, 0, 0)	66	222202300100030
1490	6	8	60000	1	48(30,17,	8, 5, 0, 0, 0, 0, 0)	62	312102100200010
1491	6	8	60000	1	192(32,21,	6, 5, 0, 0, 0, 0, 0)	62	312102100200020
1492	6	8	60000	1	192(33,23,	5, 5, 0, 0, 0, 0, 0)	62	312102100200030
1493	6	8	60000	1	96(32,20,	8, 4, 0, 0, 0, 0, 0)	64	312102200300010
1494	6	8	60000	1	384(34,24,	6, 4, 0, 0, 0, 0, 0)	64	312102200300020
1495	6	8	60000	1	384(35,26,	5, 4, 0, 0, 0, 0, 0)	64	312102200300030
1496	6	8	60000	1	48(32,21,	6, 5, 0, 0, 0, 0, 0)	62	312102200100020
1497	6	8	60000	1	96(33,23,	5, 5, 0, 0, 0, 0, 0)	62	312102200100030
1498	6	8	60000	1	192(34,24,	6, 4, 0, 0, 0, 0, 0)	64	312102300200020
1499	6	8	60000	1	288(35,26,	5, 4, 0, 0, 0, 0, 0)	64	312102300200030
1500	6	8	60000	1	144(32,19,	10, 3, 0, 0, 0, 0, 0)	66	312203100300010
1501	6	8	60000	1	456(34,23,	8, 3, 0, 0, 0, 0, 0)	66	312203100300020
1502	6	8	60000	1	384(35,25,	7, 3, 0, 0, 0, 0, 0)	66	312203100300030
1503	6	8	60000	1	144(33,21,	9, 3, 0, 0, 0, 0, 0)	66	312203200200010
1504	6	8	60000	1	672(35,25,	7, 3, 0, 0, 0, 0, 0)	66	312203200200020
1505	6	8	60000	1	624(36,27,	6, 3, 0, 0, 0, 0, 0)	66	312203200200030
1506	6	8	60000	1	144(34,23,	8, 3, 0, 0, 0, 0, 0)	66	312203300100020
1507	6	8	60000	1	168(35,25,	7, 3, 0, 0, 0, 0, 0)	66	312203300100030
1508	6	8	60000	1	48(30,16,	10, 4, 0, 0, 0, 0, 0)	64	321103100200010
1509	6	8	60000	1	192(32,20,	8, 4, 0, 0, 0, 0, 0)	64	321103100200020
1510	6	8	60000	1	192(33,22,	7, 4, 0, 0, 0, 0, 0)	64	321103100200030
1511	6	8	60000	1	72(32,19,	10, 3, 0, 0, 0, 0, 0)	66	321103200300010
1512	6	8	60000	1	288(34,23,	8, 3, 0, 0, 0, 0, 0)	66	321103200300020
1513	6	8	60000	1	288(35,25,	7, 3, 0, 0, 0, 0, 0)	66	321103200300030
1514	6	8	60000	1	48(32,20,	8, 4, 0, 0, 0, 0, 0)	64	321103200100020
1515	6	8	60000	1	96(33,22,	7, 4, 0, 0, 0, 0, 0)	64	321103200100030
1516	6	8	60000	1	144(34,23,	8, 3, 0, 0, 0, 0, 0)	66	321103300200020
1517	6	8	60000	1	216(35,25,	7, 3, 0, 0, 0, 0, 0)	66	321103300200030
1518	6	8	60000	1	48(31,17,	11, 3, 0, 0, 0, 0, 0)	66	321202100300010
1519	6	8	60000	1	240(33,21,	9, 3, 0, 0, 0, 0, 0)	66	321202100300020
1520	6	8	60000	1	240(34,23,	8, 3, 0, 0, 0, 0, 0)	66	321202100300030
1521	6	8	60000	1	336(34,23,	8, 3, 0, 0, 0, 0, 0)	66	321202200200020
1522	6	8	60000	1	384(35,25,	7, 3, 0, 0, 0, 0, 0)	66	321202200200030
1523	6	8	60000	1	48(32,19,	10, 3, 0, 0, 0, 0, 0)	66	321202200200010
1524	6	8	60000	1	48(33,21,	9, 3, 0, 0, 0, 0, 0)	66	321202300100020
1525	6	8	60000	1	96(34,23,	8, 3, 0, 0, 0, 0, 0)	66	321202300100030
1526	6	8	60000	2	96(33,22,	7, 4, 0, 0, 0, 0, 0)	64	112203300130000
1527	6	8	60000	2	96(35,25,	7, 3, 0, 0, 0, 0, 0)	66	123202200230000
1528	6	8	60000	2	96(33,21,	9, 3, 0, 0, 0, 0, 0)	66	123202300120000
1529	6	8	60000	2	192(34,23,	8, 3, 0, 0, 0, 0, 0)	66	123202300130000
1530	6	8	60000	2	96(33,23,	5, 5, 0, 0, 0, 0, 0)	62	213102200130000
1531	6	8	60000	2	24(30,18,	6, 6, 0, 0, 0, 0, 0)	60	211102200120000
1532	6	8	60000	2	48(31,20,	5, 6, 0, 0, 0, 0, 0)	60	211102200130000
1533	6	8	60000	2	96(32,21,	6, 5, 0, 0, 0, 0, 0)	62	312102200120000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1534	6	8	60000	2	192133,23, 5,	5, 0, 0, 0, 0, 0)	62	312102200130000
1535	6	8	60000	2	192133,22, 7,	4, 0, 0, 0, 0, 0)	64	222103200120000
1536	6	8	60000	2	384134,24, 6,	4, 0, 0, 0, 0, 0)	64	222103200130000
1537	6	8	60000	2	192132,20, 8,	4, 0, 0, 0, 0, 0)	64	321103200120000
1538	6	8	60000	2	288133,22, 7,	4, 0, 0, 0, 0, 0)	64	321103200130000
1539	6	8	60000	2	192135,26, 5,	4, 0, 0, 0, 0, 0)	64	213102300230000
1540	6	8	60000	2	192136,27, 6,	3, 0, 0, 0, 0, 0)	66	213203200230000
1541	6	8	60000	2	96134,23, 8,	3, 0, 0, 0, 0, 0)	66	213203300120000
1542	6	8	60000	2	288135,25, 7,	3, 0, 0, 0, 0, 0)	66	213203300130000
1543	6	8	60000	2	288135,25, 7,	3, 0, 0, 0, 0, 0)	66	312203200220000
1544	6	8	60000	2	576136,27, 6,	3, 0, 0, 0, 0, 0)	66	312203200230000
1545	6	8	60000	2	240135,25, 7,	3, 0, 0, 0, 0, 0)	66	222202200220000
1546	6	8	60000	2	432136,27, 6,	3, 0, 0, 0, 0, 0)	66	222202200230000
1547	6	8	60000	2	672134,23, 8,	3, 0, 0, 0, 0, 0)	66	222202300120000
1548	6	8	60000	2	768135,25, 7,	3, 0, 0, 0, 0, 0)	66	222202300130000
1549	6	8	60000	2	96132,19,10,	3, 0, 0, 0, 0, 0)	66	222202300110000
1550	6	8	60000	2	96134,24, 6,	4, 0, 0, 0, 0, 0)	64	312102300220000
1551	6	8	60000	2	192135,26, 5,	4, 0, 0, 0, 0, 0)	64	312102300230000
1552	6	8	60000	2	288134,23, 8,	3, 0, 0, 0, 0, 0)	66	312203300120000
1553	6	8	60000	2	432135,25, 7,	3, 0, 0, 0, 0, 0)	66	312203300130000
1554	6	8	60000	2	48131,17,11,	3, 0, 0, 0, 0, 0)	66	321202300110000
1555	6	8	60000	2	240133,21, 9,	3, 0, 0, 0, 0, 0)	66	321202300120000
1556	6	8	60000	2	240134,23, 8,	3, 0, 0, 0, 0, 0)	66	321202300130000
1557	6	8	60000	4	384134,22,10,	2, 0, 0, 0, 0, 0)	68	312302020200002
1558	6	8	60000	4	384135,24, 9,	2, 0, 0, 0, 0, 0)	68	312302020200003
1559	6	8	60000	4	96132,18,12,	2, 0, 0, 0, 0, 0)	68	312302020200001
1560	6	8	60000	4	1248136,26, 8,	2, 0, 0, 0, 0, 0)	68	312302030300002
1561	6	8	60000	4	960137,28, 7,	2, 0, 0, 0, 0, 0)	68	312302030300003
1562	6	8	60000	4	384134,22,10,	2, 0, 0, 0, 0, 0)	68	312302030300001
1563	6	8	60000	4	960135,24, 9,	2, 0, 0, 0, 0, 0)	68	213302030200002
1564	6	8	60000	4	768136,26, 8,	2, 0, 0, 0, 0, 0)	68	213302030200003
1565	6	8	60000	4	192133,20,11,	2, 0, 0, 0, 0, 0)	68	213302030200001
1566	6	8	60000	4	96134,22,10,	2, 0, 0, 0, 0, 0)	68	222202030300001
1567	6	8	60000	4	336136,26, 8,	2, 0, 0, 0, 0, 0)	68	222202030300002
1568	6	8	60000	4	288137,28, 7,	2, 0, 0, 0, 0, 0)	68	222202030300003
1569	6	8	60000	2	48134,22,10,	2, 0, 0, 0, 0, 0)	68	213203020220000
1570	6	8	60000	2	96135,24, 9,	2, 0, 0, 0, 0, 0)	68	213203020230000
1571	6	8	60000	2	96136,26, 8,	2, 0, 0, 0, 0, 0)	68	213203030320000
1572	6	8	60000	2	192137,28, 7,	2, 0, 0, 0, 0, 0)	68	213203030330000
1573	6	8	60000	2	192135,24, 9,	2, 0, 0, 0, 0, 0)	68	312203030220000
1574	6	8	60000	2	192136,26, 8,	2, 0, 0, 0, 0, 0)	68	312203030230000
1575	6	8	60000	2	192135,24, 9,	2, 0, 0, 0, 0, 0)	68	213302030220000
1576	6	8	60000	2	288136,26, 8,	2, 0, 0, 0, 0, 0)	68	213302030230000
1577	6	8	60000	2	48134,22,10,	2, 0, 0, 0, 0, 0)	68	222202030310000
1578	6	8	60000	2	192136,26, 8,	2, 0, 0, 0, 0, 0)	68	222202030320000
1579	6	8	60000	2	192137,28, 7,	2, 0, 0, 0, 0, 0)	68	222202030330000
1580	6	8	60000	2	48132,18,12,	2, 0, 0, 0, 0, 0)	68	312302020210000
1581	6	8	60000	2	192134,22,10,	2, 0, 0, 0, 0, 0)	68	312302020200000
1582	6	8	60000	2	192135,24, 9,	2, 0, 0, 0, 0, 0)	68	312302020230000
1583	6	8	60000	2	96134,22,10,	2, 0, 0, 0, 0, 0)	68	312302030310000
1584	6	8	60000	2	336136,26, 8,	2, 0, 0, 0, 0, 0)	68	312302030320000
1585	6	8	60000	2	288137,28, 7,	2, 0, 0, 0, 0, 0)	68	312302030330000
1586	6	8	60000	2	96132,18,12,	2, 0, 0, 0, 0, 0)	68	312302020201000
1587	6	8	60000	2	384134,22,10,	2, 0, 0, 0, 0, 0)	68	312302020202000
1588	6	8	60000	2	384135,24, 9,	2, 0, 0, 0, 0, 0)	68	312302020203000
1589	6	8	60000	2	192134,22,10,	2, 0, 0, 0, 0, 0)	68	312302030301000
1590	6	8	60000	2	960136,26, 8,	2, 0, 0, 0, 0, 0)	68	312302030302000
1591	6	8	60000	2	768137,28, 7,	2, 0, 0, 0, 0, 0)	68	312302030303000
1592	6	8	60000	2	96133,20,11,	2, 0, 0, 0, 0, 0)	68	21330202020301000
1593	6	8	60000	2	384135,24, 9,	2, 0, 0, 0, 0, 0)	68	21330202020302000
1594	6	8	60000	2	384136,26, 8,	2, 0, 0, 0, 0, 0)	68	21330202020303000
1595	6	8	60000	2	96133,20,11,	2, 0, 0, 0, 0, 0)	68	213302030201000
1596	6	8	60000	2	480135,24, 9,	2, 0, 0, 0, 0, 0)	68	213302030202000
1597	6	8	60000	2	480136,26, 8,	2, 0, 0, 0, 0, 0)	68	213302030203000
1598	6	8	60000	2	192136,26, 8,	2, 0, 0, 0, 0, 0)	68	222202030302000
1599	6	8	60000	2	192137,28, 7,	2, 0, 0, 0, 0, 0)	68	222202030303000
1600	6	8	60000	2	48134,22,10,	2, 0, 0, 0, 0, 0)	68	222202030301000
1601	6	8	60000	4	24128,12,12,	4, 0, 0, 0, 0, 0)	64	211200020200011
1602	6	8	60000	4	96131,17,11,	3, 0, 0, 0, 0, 0)	66	222200020200011
1603	6	8	60000	4	192131,17,11,	3, 0, 0, 0, 0, 0)	66	321300020200011
1604	6	8	60000	4	192131,17,11,	3, 0, 0, 0, 0, 0)	66	312300020200011
1605	6	8	60000	4	192132,19,10,	3, 0, 0, 0, 0, 0)	66	231300030200011
1606	6	8	60000	4	48130,16,10,	4, 0, 0, 0, 0, 0)	64	211300030200011
1607	6	8	60000	4	288133,21, 9,	3, 0, 0, 0, 0, 0)	66	222300030200011
1608	6	8	60000	4	192133,20,11,	2, 0, 0, 0, 0, 0)	68	213300020300021
1609	6	8	60000	4	192133,20,11,	2, 0, 0, 0, 0, 0)	68	231200030300021
1610	6	8	60000	4	96134,22,10,	2, 0, 0, 0, 0, 0)	68	213300030200031
1611	6	8	60000	4	576135,24, 9,	2, 0, 0, 0, 0, 0)	68	222300030200031
1612	6	8	60000	4	96134,22,10,	2, 0, 0, 0, 0, 0)	68	231300030200031
1613	6	8	60000	4	96134,22,10,	2, 0, 0, 0, 0, 0)	68	222200020200022
1614	6	8	60000	4	384134,22,10,	2, 0, 0, 0, 0, 0)	68	222300020300021
1615	6	8	60000	4	384134,22,10,	2, 0, 0, 0, 0, 0)	68	222200030300021
1616	6	8	60000	4	336136,26, 8,	2, 0, 0, 0, 0, 0)	68	222300030200022
1617	6	8	60000	4	96132,18,12,	2, 0, 0, 0, 0, 0)	68	321200020300021
1618	6	8	60000	4	96132,18,12,	2, 0, 0, 0, 0, 0)	68	312200020300021
1619	6	8	60000	4	288134,22,10,	2, 0, 0, 0, 0, 0)	68	321300030300021
1620	6	8	60000	4	336134,22,10,	2, 0, 0, 0, 0, 0)	68	312300030300021
1621	6	8	60000	4	192135,24, 9,	2, 0, 0, 0, 0, 0)	68	213302000302002
1622	6	8	60000	2	48136,25,10,	1, 0, 0, 0, 0, 0)	70	222300020300230
1623	6	8	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	222300020300320
1624	6	7	60000	2	48134,22,10,	2, 0, 0, 0, 0, 0)	68	211200020000033
1625	6	7	60000	2	96134,22,10,	2, 0, 0, 0, 0, 0)	68	211200020000032
1626	6	7	60000	2	96134,22,10,	2, 0, 0, 0, 0, 0)	68	211300020000032
1627	6	7	60000	2	48134,22,10,	2, 0, 0, 0, 0, 0)	68	211300030000032
1628	6	7	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	231200020000033
1629	6	7	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	213300020000032
1630	6	7	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	231200030000032
1631	6	7	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	231300030000022
1632	6	7	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	213200030000032
1633	6	7	60000	2	96136,25,10,	1, 0, 0, 0, 0, 0)	70	231300020000032
1634	6	7	60000	2	288137,27, 9,	1, 0, 0, 0, 0, 0)	70	222300020000032
1635	6	7	60000	2	96137,27, 9,	1, 0, 0, 0, 0, 0)	70	222200020000033
1636	6	7	60000	2	192137,27, 9,	1, 0, 0, 0, 0, 0)	70	222200030000032

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1637	6	7	60000	2	96(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300030000027
1638	6	7	60000	2	96(35,23,11,	1, 0, 0, 0, 0, 0)	70	321200020000032
1639	6	7	60000	2	96(35,23,11,	1, 0, 0, 0, 0, 0)	70	312200020000032
1640	6	7	60000	2	96(35,23,11,	1, 0, 0, 0, 0, 0)	70	321300020000027
1641	6	7	60000	2	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	312300020000027
1642	6	7	60000	8	384(28,12,12,	4, 0, 0, 0, 0, 0)	64	211100000200011
1643	6	7	60000	8	768(30,15,12,	3, 0, 0, 0, 0, 0)	66	312100000200011
1644	6	7	60000	8	768(31,17,11,	3, 0, 0, 0, 0, 0)	66	227100000200011
1645	6	7	60000	8	1536(30,15,12,	3, 0, 0, 0, 0, 0)	66	321100000200011
1646	6	7	60000	8	768(30,16,10,	4, 0, 0, 0, 0, 0)	64	112200000200011
1647	6	7	60000	8	2976(30,16,10,	4, 0, 0, 0, 0, 0)	64	211200000200011
1648	6	7	60000	8	3072(32,19,10,	3, 0, 0, 0, 0, 0)	66	213200000200011
1649	6	7	60000	8	5760(32,19,10,	3, 0, 0, 0, 0, 0)	66	312200000200011
1650	6	7	60000	8	7296(33,21, 9,	3, 0, 0, 0, 0, 0)	66	222200000200011
1651	6	7	60000	8	9984(32,19,10,	3, 0, 0, 0, 0, 0)	66	321200000200011
1652	6	7	60000	8	8932(33,21, 9,	3, 0, 0, 0, 0, 0)	66	312300000200011
1653	6	7	60000	8	12672(33,21, 9,	3, 0, 0, 0, 0, 0)	66	321300000200011
1654	6	7	60000	8	2304(31,18, 9,	4, 0, 0, 0, 0, 0)	64	112300000200011
1655	6	7	60000	8	6528(33,21, 9,	3, 0, 0, 0, 0, 0)	66	213300000200011
1656	6	7	60000	8	4416(31,18, 9,	4, 0, 0, 0, 0, 0)	64	211300000200011
1657	6	7	60000	8	10368(34,23, 8,	3, 0, 0, 0, 0, 0)	66	222300000200011
1658	6	7	60000	8	384(32,18,12,	2, 0, 0, 0, 0, 0)	68	312100000300012
1659	6	7	60000	8	768(33,20,11,	2, 0, 0, 0, 0, 0)	68	227100000300012
1660	6	7	60000	8	1536(32,18,12,	2, 0, 0, 0, 0, 0)	68	312100000300021
1661	6	7	60000	8	768(32,19,10,	3, 0, 0, 0, 0, 0)	66	312200000300012
1662	6	7	60000	8	3072(34,22,10,	2, 0, 0, 0, 0, 0)	68	213200000300012
1663	6	7	60000	8	2880(34,22,10,	2, 0, 0, 0, 0, 0)	68	312200000300012
1664	6	7	60000	8	6912(35,24, 9,	2, 0, 0, 0, 0, 0)	68	222200000300012
1665	6	7	60000	8	9600(34,22,10,	2, 0, 0, 0, 0, 0)	68	312200000300021
1666	6	7	60000	8	2304(33,21, 9,	3, 0, 0, 0, 0, 0)	66	312300000300012
1667	6	7	60000	8	6528(35,24, 9,	2, 0, 0, 0, 0, 0)	68	213300000300012
1668	6	7	60000	8	4032(35,24, 9,	2, 0, 0, 0, 0, 0)	68	312300000300012
1669	6	7	60000	8	10560(36,26, 8,	2, 0, 0, 0, 0, 0)	68	222300000300012
1670	6	7	60000	8	11712(35,24, 9,	2, 0, 0, 0, 0, 0)	68	312300000300021
1671	6	7	60000	8	48(30,16,10,	4, 0, 0, 0, 0, 0)	64	112200000300012
1672	6	7	60000	8	384(32,19,10,	3, 0, 0, 0, 0, 0)	66	213200000300012
1673	6	7	60000	8	960(33,21, 9,	3, 0, 0, 0, 0, 0)	66	222200000300012
1674	6	7	60000	8	1344(32,19,10,	3, 0, 0, 0, 0, 0)	66	112200000300021
1675	6	7	60000	8	3456(33,21, 9,	3, 0, 0, 0, 0, 0)	66	112300000300021
1676	6	7	60000	8	288(31,18, 9,	4, 0, 0, 0, 0, 0)	64	112300000300012
1677	6	7	60000	8	1728(33,21, 9,	3, 0, 0, 0, 0, 0)	66	213300000300012
1678	6	7	60000	8	2880(34,23, 8,	3, 0, 0, 0, 0, 0)	66	222300000300012
1679	6	7	60000	8	768(34,22,10,	2, 0, 0, 0, 0, 0)	68	213200000200012
1680	6	7	60000	8	3840(35,24, 9,	2, 0, 0, 0, 0, 0)	68	213200000200022
1681	6	7	60000	8	5376(34,22,10,	2, 0, 0, 0, 0, 0)	68	213200000300021
1682	6	7	60000	8	2400(35,24, 9,	2, 0, 0, 0, 0, 0)	68	213300000200013
1683	6	7	60000	8	7488(36,26, 8,	2, 0, 0, 0, 0, 0)	68	213300000200022
1684	6	7	60000	8	9216(35,24, 9,	2, 0, 0, 0, 0, 0)	68	213300000300021
1685	6	7	60000	8	1536(33,20,11,	2, 0, 0, 0, 0, 0)	68	222100000300021
1686	6	7	60000	8	1536(32,18,12,	2, 0, 0, 0, 0, 0)	68	321100000300021
1687	6	7	60000	8	11904(35,24, 9,	2, 0, 0, 0, 0, 0)	68	222200000300021
1688	6	7	60000	8	8064(34,22,10,	2, 0, 0, 0, 0, 0)	68	321200000300021
1689	6	7	60000	8	14208(36,26, 8,	2, 0, 0, 0, 0, 0)	68	222300000300021
1690	6	7	60000	8	8256(35,24, 9,	2, 0, 0, 0, 0, 0)	68	321300000300021
1691	6	7	60000	8	384(34,22,10,	2, 0, 0, 0, 0, 0)	68	222100000200022
1692	6	7	60000	8	4416(36,26, 8,	2, 0, 0, 0, 0, 0)	68	222200000200022
1693	6	7	60000	8	5664(37,28, 7,	2, 0, 0, 0, 0, 0)	68	222300000200022
1694	6	7	60000	4	192(32,18,12,	2, 0, 0, 0, 0, 0)	68	211200200000027
1695	6	7	60000	4	384(34,22,10,	2, 0, 0, 0, 0, 0)	68	211200200000032
1696	6	7	60000	4	768(34,22,10,	2, 0, 0, 0, 0, 0)	68	211300200000032
1697	6	7	60000	4	768(34,22,10,	2, 0, 0, 0, 0, 0)	68	211200300000032
1698	6	7	60000	4	768(34,22,10,	2, 0, 0, 0, 0, 0)	68	211300300000022
1699	6	7	60000	4	1248(36,26, 8,	2, 0, 0, 0, 0, 0)	68	211300300000032
1700	6	7	60000	4	192(34,21,12,	1, 0, 0, 0, 0, 0)	70	312200200000027
1701	6	7	60000	4	384(36,25,10,	1, 0, 0, 0, 0, 0)	70	312200200000032
1702	6	7	60000	4	768(36,25,10,	1, 0, 0, 0, 0, 0)	70	312300200000032
1703	6	7	60000	4	768(36,25,10,	1, 0, 0, 0, 0, 0)	70	312200300000032
1704	6	7	60000	4	768(36,25,10,	1, 0, 0, 0, 0, 0)	70	312300300000022
1705	6	7	60000	4	1152(38,29, 8,	1, 0, 0, 0, 0, 0)	70	312300300000032
1706	6	7	60000	4	96(34,22,10,	2, 0, 0, 0, 0, 0)	68	112300300000027
1707	6	7	60000	4	144(36,26, 8,	2, 0, 0, 0, 0, 0)	68	112300300000032
1708	6	7	60000	4	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	213300200000032
1709	6	7	60000	4	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	213200300000032
1710	6	7	60000	4	384(36,25,10,	1, 0, 0, 0, 0, 0)	70	213300300000022
1711	6	7	60000	4	672(38,29, 8,	1, 0, 0, 0, 0, 0)	70	213300300000032
1712	6	7	60000	4	384(34,21,12,	1, 0, 0, 0, 0, 0)	70	321200200000022
1713	6	7	60000	4	768(36,25,10,	1, 0, 0, 0, 0, 0)	70	321200200000032
1714	6	7	60000	4	1728(36,25,10,	1, 0, 0, 0, 0, 0)	70	321300200000032
1715	6	7	60000	4	1920(36,25,10,	1, 0, 0, 0, 0, 0)	70	321200300000032
1716	6	7	60000	4	1344(36,25,10,	1, 0, 0, 0, 0, 0)	70	321300300000022
1717	6	7	60000	4	2112(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321300300000032
1718	6	7	60000	4	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	222200200000027
1719	6	7	60000	4	384(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222200200000032
1720	6	7	60000	4	1152(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300200000032
1721	6	7	60000	4	1152(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300300000027
1722	6	7	60000	4	960(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300300000027
1723	6	7	60000	4	1632(39,31, 7,	1, 0, 0, 0, 0, 0)	70	222300300000032
1724	6	7	60000	4	192(32,20, 8,	4, 0, 0, 0, 0, 0)	64	211200200002100
1725	6	7	60000	4	192(32,20, 8,	4, 0, 0, 0, 0, 0)	64	121200200002100
1726	6	7	60000	4	384(34,23, 8,	3, 0, 0, 0, 0, 0)	66	121200200002100
1727	6	7	60000	4	384(34,23, 8,	3, 0, 0, 0, 0, 0)	66	211200200002100
1728	6	7	60000	4	768(33,22, 7,	4, 0, 0, 0, 0, 0)	64	211300200002100
1729	6	7	60000	4	768(33,22, 7,	4, 0, 0, 0, 0, 0)	64	121300200002100
1730	6	7	60000	4	1536(35,25, 7,	3, 0, 0, 0, 0, 0)	66	121300200002100
1731	6	7	60000	4	1536(35,25, 7,	3, 0, 0, 0, 0, 0)	66	211300200002100
1732	6	7	60000	4	576(34,24, 6,	4, 0, 0, 0, 0, 0)	64	211300300002100
1733	6	7	60000	4	576(34,24, 6,	4, 0, 0, 0, 0, 0)	64	121300300002100
1734	6	7	60000	4	1152(36,27, 6,	3, 0, 0, 0, 0, 0)	66	211300300002100
1735	6	7	60000	4	1152(36,27, 6,	3, 0, 0, 0, 0, 0)	66	211300300002100
1736	6	7	60000	4	192(34,22,10,	2, 0, 0, 0, 0, 0)	68	312200200002100
1737	6	7	60000	4	384(35,24, 9,	2, 0, 0, 0, 0, 0)	68	132200200002100
1738	6	7	60000	4	192(34,22,10,	2, 0, 0, 0, 0, 0)	68	312300200002100
1739	6	7	60000	4	768(35,24, 9,	2, 0, 0, 0, 0, 0)	68	312300200002100

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
1740	6	7	60000	4	1536(36,26,8,2,0,0,0,0,0,0)	68	312300200002700	
1741	6	7	60000	4	768(35,24,9,2,0,0,0,0,0,0)	68	132300200003100	
1742	6	7	60000	4	576(36,26,8,2,0,0,0,0,0,0)	68	312300300003100	
1743	6	7	60000	4	1152(37,28,7,2,0,0,0,0,0,0)	68	312300300002700	
1744	6	7	60000	4	576(36,26,8,2,0,0,0,0,0,0)	68	132300300003100	
1745	6	7	60000	4	384(32,19,10,3,0,0,0,0,0,0)	66	321200100002100	
1746	6	7	60000	4	384(34,22,10,2,0,0,0,0,0,0)	68	321200100003200	
1747	6	7	60000	4	384(34,22,10,2,0,0,0,0,0,0)	68	231200100003200	
1748	6	7	60000	4	384(32,19,10,3,0,0,0,0,0,0)	66	231200100002100	
1749	6	7	60000	4	768(33,21,9,3,0,0,0,0,0,0)	66	321300100002100	
1750	6	7	60000	4	768(35,24,9,2,0,0,0,0,0,0)	68	321300100003200	
1751	6	7	60000	4	960(35,24,9,2,0,0,0,0,0,0)	68	231300100003200	
1752	6	7	60000	4	768(33,21,9,3,0,0,0,0,0,0)	66	231300100002100	
1753	6	7	60000	4	2112(34,23,8,3,0,0,0,0,0,0)	66	321200200002100	
1754	6	7	60000	4	2400(36,26,8,2,0,0,0,0,0,0)	68	321200200003200	
1755	6	7	60000	4	2400(36,26,8,2,0,0,0,0,0,0)	68	231200200003200	
1756	6	7	60000	4	2112(34,23,8,3,0,0,0,0,0,0)	66	231200200002100	
1757	6	7	60000	4	5376(35,25,7,3,0,0,0,0,0,0)	66	321300200002100	
1758	6	7	60000	4	5376(37,28,7,2,0,0,0,0,0,0)	68	321300200003200	
1759	6	7	60000	4	6336(37,28,7,2,0,0,0,0,0,0)	68	231300200003200	
1760	6	7	60000	4	5376(35,25,7,3,0,0,0,0,0,0)	66	231300200002100	
1761	6	7	60000	4	2880(36,27,6,3,0,0,0,0,0,0)	66	321300300002100	
1762	6	7	60000	4	2592(38,30,6,2,0,0,0,0,0,0)	68	321300300003200	
1763	6	7	60000	4	3360(38,30,6,2,0,0,0,0,0,0)	68	231300300003200	
1764	6	7	60000	4	2880(36,27,6,3,0,0,0,0,0,0)	66	231300300002100	
1765	6	7	60000	4	192(34,22,10,2,0,0,0,0,0,0)	68	222300100003100	
1766	6	7	60000	4	96(35,24,9,2,0,0,0,0,0,0)	68	222300100002200	
1767	6	7	60000	4	768(35,24,9,2,0,0,0,0,0,0)	68	222200200003100	
1768	6	7	60000	4	768(36,26,8,2,0,0,0,0,0,0)	68	222200200002700	
1769	6	7	60000	4	2880(36,26,8,2,0,0,0,0,0,0)	68	222300200003100	
1770	6	7	60000	4	2496(37,28,7,2,0,0,0,0,0,0)	68	222300200002200	
1771	6	7	60000	4	1920(37,28,7,2,0,0,0,0,0,0)	68	222300300003100	
1772	6	7	60000	4	1536(38,30,6,2,0,0,0,0,0,0)	68	222300300002200	
1773	6	7	60000	4	48(32,20,8,4,0,0,0,0,0,0)	64	112201200000200	
1774	6	7	60000	4	192(33,22,7,4,0,0,0,0,0,0)	64	112201300000200	
1775	6	7	60000	4	192(34,24,6,4,0,0,0,0,0,0)	64	112201300000300	
1776	6	7	60000	4	768(35,25,7,3,0,0,0,0,0,0)	66	213102300000200	
1777	6	7	60000	4	768(36,27,6,3,0,0,0,0,0,0)	66	312201300000300	
1778	6	7	60000	4	192(33,21,9,3,0,0,0,0,0,0)	66	213102300000100	
1779	6	7	60000	4	384(34,23,8,3,0,0,0,0,0,0)	66	213201200000200	
1780	6	7	60000	4	576(35,25,7,3,0,0,0,0,0,0)	66	213201300000200	
1781	6	7	60000	4	768(35,25,7,3,0,0,0,0,0,0)	66	312102300000200	
1782	6	7	60000	4	1152(36,27,6,3,0,0,0,0,0,0)	66	213201300000300	
1783	6	7	60000	4	960(35,24,9,2,0,0,0,0,0,0)	68	222301200000200	
1784	6	7	60000	4	960(36,26,8,2,0,0,0,0,0,0)	68	222301300000200	
1785	6	7	60000	4	192(33,20,11,2,0,0,0,0,0,0)	68	123202700000100	
1786	6	7	60000	4	1728(36,26,8,2,0,0,0,0,0,0)	68	123202300000200	
1787	6	7	60000	4	1728(37,28,7,2,0,0,0,0,0,0)	68	222301300000300	
1788	6	7	60000	4	384(34,22,10,2,0,0,0,0,0,0)	68	123202300000100	
1789	6	7	60000	4	192(34,22,10,2,0,0,0,0,0,0)	68	123301200000200	
1790	6	7	60000	4	576(35,24,9,2,0,0,0,0,0,0)	68	123301300000200	
1791	6	7	60000	4	432(36,26,8,2,0,0,0,0,0,0)	68	123301300000300	
1792	6	7	60000	4	384(37,28,7,2,0,0,0,0,0,0)	68	312302300000200	
1793	6	7	60000	4	96(34,22,10,2,0,0,0,0,0,0)	68	213203200000100	
1794	6	7	60000	4	384(36,26,8,2,0,0,0,0,0,0)	68	312302700000200	
1795	6	7	60000	4	1152(38,30,6,2,0,0,0,0,0,0)	68	312302300000300	
1796	6	7	60000	4	288(35,24,9,2,0,0,0,0,0,0)	68	213203300000100	
1797	6	7	60000	4	1152(37,28,7,2,0,0,0,0,0,0)	68	213203300000200	
1798	6	7	60000	4	1728(37,28,7,2,0,0,0,0,0,0)	68	213302300000200	
1799	6	7	60000	4	576(36,26,8,2,0,0,0,0,0,0)	68	213302700000200	
1800	6	7	60000	4	1296(38,30,6,2,0,0,0,0,0,0)	68	213302300000300	
1801	6	7	60000	4	2496(37,28,7,2,0,0,0,0,0,0)	68	222202700000200	
1802	6	7	60000	4	1152(36,26,8,2,0,0,0,0,0,0)	68	222202200000200	
1803	6	7	60000	4	1344(38,30,6,2,0,0,0,0,0,0)	68	222202300000300	
1804	6	7	60000	4	384(35,24,9,2,0,0,0,0,0,0)	68	222202300000100	
1805	6	7	60000	4	48(32,18,12,2,0,0,0,0,0,0)	68	222202100000100	
1806	6	7	60000	4	384(34,22,10,2,0,0,0,0,0,0)	68	222202700000100	
1807	6	7	60000	4	48(28,12,12,4,0,0,0,0,0,0)	64	220111010000100	
1808	6	7	60000	4	384(30,16,10,4,0,0,0,0,0,0)	64	220111020000100	
1809	6	7	60000	4	384(31,18,9,4,0,0,0,0,0,0)	64	220111030000100	
1810	6	7	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	220111020000200	
1811	6	7	60000	4	1536(33,22,7,4,0,0,0,0,0,0)	64	220111030000200	
1812	6	7	60000	4	768(34,24,6,4,0,0,0,0,0,0)	64	220111030000300	
1813	6	7	60000	4	48(30,14,14,2,0,0,0,0,0,0)	68	330211010000100	
1814	6	7	60000	4	384(32,18,12,2,0,0,0,0,0,0)	68	330211020000100	
1815	6	7	60000	4	384(33,20,11,2,0,0,0,0,0,0)	68	330211030000100	
1816	6	7	60000	4	768(34,22,10,2,0,0,0,0,0,0)	68	330211020000200	
1817	6	7	60000	4	1536(35,24,9,2,0,0,0,0,0,0)	68	330211030000200	
1818	6	7	60000	4	768(36,26,8,2,0,0,0,0,0,0)	68	330211030000300	
1819	6	7	60000	4	48(28,12,12,4,0,0,0,0,0,0)	64	120121010000100	
1820	6	7	60000	4	384(30,16,10,4,0,0,0,0,0,0)	64	120121020000100	
1821	6	7	60000	4	384(31,18,9,4,0,0,0,0,0,0)	64	120121030000100	
1822	6	7	60000	4	768(32,20,8,4,0,0,0,0,0,0)	64	120121020000200	
1823	6	7	60000	4	1536(33,22,7,4,0,0,0,0,0,0)	64	120121030000200	
1824	6	7	60000	4	768(34,24,6,4,0,0,0,0,0,0)	64	120121030000300	
1825	6	7	60000	4	1344(32,19,10,3,0,0,0,0,0,0)	66	320121020000100	
1826	6	7	60000	4	1152(33,21,9,3,0,0,0,0,0,0)	66	320121030000100	
1827	6	7	60000	4	384(30,15,12,3,0,0,0,0,0,0)	66	320121010000100	
1828	6	7	60000	4	5376(34,23,8,3,0,0,0,0,0,0)	66	320121020000200	
1829	6	7	60000	4	4608(35,25,7,3,0,0,0,0,0,0)	66	320121030000200	
1830	6	7	60000	4	1536(32,19,10,3,0,0,0,0,0,0)	66	230112020000100	
1831	6	7	60000	4	5376(35,25,7,3,0,0,0,0,0,0)	66	230112030000200	
1832	6	7	60000	4	4608(36,27,6,3,0,0,0,0,0,0)	66	320121030000300	
1833	6	7	60000	4	1536(33,21,9,3,0,0,0,0,0,0)	66	230112030000100	
1834	6	7	60000	4	192(31,16,13,2,0,0,0,0,0,0)	68	230221010000100	
1835	6	7	60000	4	960(33,20,11,2,0,0,0,0,0,0)	68	230221020000100	
1836	6	7	60000	4	960(34,22,10,2,0,0,0,0,0,0)	68	230221030000100	
1837	6	7	60000	4	768(33,20,11,2,0,0,0,0,0,0)	68	320212020000100	
1838	6	7	60000	4	3840(35,24,9,2,0,0,0,0,0,0)	68	230221020000200	
1839	6	7	60000	4	3840(36,26,8,2,0,0,0,0,0,0)	68	230221030000200	
1840	6	7	60000	4	768(34,22,10,2,0,0,0,0,0,0)	68	320212030000100	
1841	6	7	60000	4	3840(36,26,8,2,0,0,0,0,0,0)	68	320212030000200	
1842	6	7	60000	4	3840(37,28,7,2,0,0,0,0,0,0)	68	230221030000300	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1843	6	7	60000	4	1152(33,21,9,3,0,0,0,0,0,0)	66	220131030000100	
1844	6	7	60000	4	384(30,15,12,3,0,0,0,0,0,0)	66	220131010000100	
1845	6	7	60000	4	1344(32,19,10,3,0,0,0,0,0,0)	66	220131020000100	
1846	6	7	60000	4	4608(35,25,7,3,0,0,0,0,0,0)	66	220131030000200	
1847	6	7	60000	4	1536(32,19,10,3,0,0,0,0,0,0)	66	130122020000100	
1848	6	7	60000	4	5376(34,23,8,3,0,0,0,0,0,0)	66	220131020000200	
1849	6	7	60000	4	4608(36,27,6,3,0,0,0,0,0,0)	66	220131030000300	
1850	6	7	60000	4	1536(33,21,9,3,0,0,0,0,0,0)	66	130122030000100	
1851	6	7	60000	4	5376(35,25,7,3,0,0,0,0,0,0)	66	130122030000200	
1852	6	7	60000	4	48(30,14,14,2,0,0,0,0,0,0)	68	130231010000100	
1853	6	7	60000	4	384(32,18,12,2,0,0,0,0,0,0)	68	130231020000100	
1854	6	7	60000	4	384(33,20,11,2,0,0,0,0,0,0)	68	130231030000100	
1855	6	7	60000	4	768(34,22,10,2,0,0,0,0,0,0)	68	130231020000200	
1856	6	7	60000	4	1536(35,24,9,2,0,0,0,0,0,0)	68	130231030000200	
1857	6	7	60000	4	768(36,26,8,2,0,0,0,0,0,0)	68	130231030000300	
1858	6	7	60000	4	576(32,18,12,2,0,0,0,0,0,0)	68	330122010000100	
1859	6	7	60000	4	3648(34,22,10,2,0,0,0,0,0,0)	68	330122020000100	
1860	6	7	60000	4	2688(35,24,9,2,0,0,0,0,0,0)	68	330122030000100	
1861	6	7	60000	4	5808(36,26,8,2,0,0,0,0,0,0)	68	330122020000200	
1862	6	7	60000	4	8640(37,28,7,2,0,0,0,0,0,0)	68	330122030000200	
1863	6	7	60000	4	3264(38,30,6,2,0,0,0,0,0,0)	68	330122030000300	
1864	6	7	60000	4	96(32,18,12,2,0,0,0,0,0,0)	68	220222010000100	
1865	6	7	60000	4	960(34,22,10,2,0,0,0,0,0,0)	68	220222020000100	
1866	6	7	60000	4	864(35,24,9,2,0,0,0,0,0,0)	68	220222030000100	
1867	6	7	60000	4	2400(36,26,8,2,0,0,0,0,0,0)	68	220222020000200	
1868	6	7	60000	4	4320(37,28,7,2,0,0,0,0,0,0)	68	220222030000200	
1869	6	7	60000	4	1968(38,30,6,2,0,0,0,0,0,0)	68	220222030000300	
1870	6	7	60000	4	3072(35,24,9,2,0,0,0,0,0,0)	68	230132030000100	
1871	6	7	60000	4	576(32,18,12,2,0,0,0,0,0,0)	68	230132010000100	
1872	6	7	60000	4	3648(34,22,10,2,0,0,0,0,0,0)	68	230132020000100	
1873	6	7	60000	4	9600(37,28,7,2,0,0,0,0,0,0)	68	230132030000200	
1874	6	7	60000	4	5808(36,26,8,2,0,0,0,0,0,0)	68	230132020000200	
1875	6	7	60000	4	4128(38,30,6,2,0,0,0,0,0,0)	68	230132030000300	
1876	6	7	60000	4	96(34,24,6,4,0,0,0,0,0,0)	64	112201300030000	
1877	6	7	60000	4	192(36,27,6,3,0,0,0,0,0,0)	66	312102300030000	
1878	6	7	60000	4	192(37,28,7,2,0,0,0,0,0,0)	68	123202300030000	
1879	6	7	60000	4	192(35,24,9,2,0,0,0,0,0,0)	68	123301300020000	
1880	6	7	60000	4	288(36,26,8,2,0,0,0,0,0,0)	68	123301300030000	
1881	6	7	60000	4	384(35,25,7,3,0,0,0,0,0,0)	66	213201300020000	
1882	6	7	60000	4	576(36,27,6,3,0,0,0,0,0,0)	66	213201300030000	
1883	6	7	60000	4	96(32,20,8,4,0,0,0,0,0,0)	64	211201200020000	
1884	6	7	60000	4	384(33,22,7,4,0,0,0,0,0,0)	64	211201300020000	
1885	6	7	60000	4	288(34,24,6,4,0,0,0,0,0,0)	64	211201300030000	
1886	6	7	60000	4	384(34,23,8,3,0,0,0,0,0,0)	66	312201200020000	
1887	6	7	60000	4	1536(35,25,7,3,0,0,0,0,0,0)	66	312201300020000	
1888	6	7	60000	4	1152(36,27,6,3,0,0,0,0,0,0)	66	312201300030000	
1889	6	7	60000	4	144(38,30,6,2,0,0,0,0,0,0)	68	213203300030000	
1890	6	7	60000	4	576(37,28,7,2,0,0,0,0,0,0)	68	213302300020000	
1891	6	7	60000	4	864(38,30,6,2,0,0,0,0,0,0)	68	213302300030000	
1892	6	7	60000	4	288(36,26,8,2,0,0,0,0,0,0)	68	222202700020000	
1893	6	7	60000	4	1344(37,28,7,2,0,0,0,0,0,0)	68	222202300020000	
1894	6	7	60000	4	1152(38,30,6,2,0,0,0,0,0,0)	68	222202300030000	
1895	6	7	60000	4	192(34,22,10,2,0,0,0,0,0,0)	68	222301300010000	
1896	6	7	60000	4	768(35,24,9,2,0,0,0,0,0,0)	68	222301200020000	
1897	6	7	60000	4	2880(36,26,8,2,0,0,0,0,0,0)	68	222301300020000	
1898	6	7	60000	4	1920(37,28,7,2,0,0,0,0,0,0)	68	222301300030000	
1899	6	7	60000	4	288(36,26,8,2,0,0,0,0,0,0)	68	312302200020000	
1900	6	7	60000	4	1152(37,28,7,2,0,0,0,0,0,0)	68	312302300020000	
1901	6	7	60000	4	864(38,30,6,2,0,0,0,0,0,0)	68	312302300030000	
1902	6	7	60000	4	96(32,18,12,2,0,0,0,0,0,0)	68	321301200010000	
1903	6	7	60000	4	192(33,20,11,2,0,0,0,0,0,0)	68	321301300010000	
1904	6	7	60000	4	528(34,22,10,2,0,0,0,0,0,0)	68	321301200020000	
1905	6	7	60000	4	1344(35,24,9,2,0,0,0,0,0,0)	68	321301300020000	
1906	6	7	60000	4	720(36,26,8,2,0,0,0,0,0,0)	68	321301300030000	
1907	6	7	60000	1	24(30,16,10,4,0,0,0,0,0,0)	64	112201700000010	
1908	6	7	60000	1	72(32,20,8,4,0,0,0,0,0,0)	64	112201200000020	
1909	6	7	60000	1	48(33,22,7,4,0,0,0,0,0,0)	64	112201200000030	
1910	6	7	60000	1	48(31,18,9,4,0,0,0,0,0,0)	64	112201300000010	
1911	6	7	60000	1	144(33,22,7,4,0,0,0,0,0,0)	64	112201300000020	
1912	6	7	60000	1	144(34,24,6,4,0,0,0,0,0,0)	64	112201300000030	
1913	6	7	60000	1	240(36,27,6,3,0,0,0,0,0,0)	66	112203300000030	
1914	6	7	60000	1	96(33,21,9,3,0,0,0,0,0,0)	66	112203300000010	
1915	6	7	60000	1	288(35,25,7,3,0,0,0,0,0,0)	66	112203300000020	
1916	6	7	60000	1	240(35,25,7,3,0,0,0,0,0,0)	66	112302200000030	
1917	6	7	60000	1	96(32,19,10,3,0,0,0,0,0,0)	66	112302200000010	
1918	6	7	60000	1	288(34,23,8,3,0,0,0,0,0,0)	66	112302200000020	
1919	6	7	60000	1	384(36,27,6,3,0,0,0,0,0,0)	66	112302300000030	
1920	6	7	60000	1	192(33,21,9,3,0,0,0,0,0,0)	66	112302300000010	
1921	6	7	60000	1	576(35,25,7,3,0,0,0,0,0,0)	66	112302300000020	
1922	6	7	60000	1	48(33,20,11,2,0,0,0,0,0,0)	68	123202200000010	
1923	6	7	60000	1	192(35,24,9,2,0,0,0,0,0,0)	68	123202200000020	
1924	6	7	60000	1	144(36,26,8,2,0,0,0,0,0,0)	68	123202200000030	
1925	6	7	60000	1	96(34,22,10,2,0,0,0,0,0,0)	68	123202300000010	
1926	6	7	60000	1	384(36,26,8,2,0,0,0,0,0,0)	68	123202300000020	
1927	6	7	60000	1	384(37,28,7,2,0,0,0,0,0,0)	68	123202300000030	
1928	6	7	60000	1	48(32,18,12,2,0,0,0,0,0,0)	68	123301200000010	
1929	6	7	60000	1	144(34,22,10,2,0,0,0,0,0,0)	68	123301200000020	
1930	6	7	60000	1	144(35,24,9,2,0,0,0,0,0,0)	68	123301200000030	
1931	6	7	60000	1	72(33,20,11,2,0,0,0,0,0,0)	68	123301300000010	
1932	6	7	60000	1	240(35,24,9,2,0,0,0,0,0,0)	68	123301300000020	
1933	6	7	60000	1	168(36,26,8,2,0,0,0,0,0,0)	68	123301300000030	
1934	6	7	60000	1	24(30,16,10,4,0,0,0,0,0,0)	64	211102700000010	
1935	6	7	60000	1	96(32,20,8,4,0,0,0,0,0,0)	64	211102700000020	
1936	6	7	60000	1	96(33,22,7,4,0,0,0,0,0,0)	64	211102700000030	
1937	6	7	60000	1	48(31,18,9,4,0,0,0,0,0,0)	64	211102300000010	
1938	6	7	60000	1	192(33,22,7,4,0,0,0,0,0,0)	64	211102300000020	
1939	6	7	60000	1	192(34,24,6,4,0,0,0,0,0,0)	64	211102300000030	
1940	6	7	60000	1	576(35,25,7,3,0,0,0,0,0,0)	66	211203200000030	
1941	6	7	60000	1	192(32,19,10,3,0,0,0,0,0,0)	66	211203200000010	
1942	6	7	60000	1	672(34,23,8,3,0,0,0,0,0,0)	66	211203200000020	
1943	6	7	60000	1	768(36,27,6,3,0,0,0,0,0,0)	66	211203300000030	
1944	6	7	60000	1	288(33,21,9,3,0,0,0,0,0,0)	66	211203300000010	
1945	6	7	60000	1	912(35,25,7,3,0,0,0,0,0,0)	66	211203300000020	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CONF	TERM	GRAPH MATRIX
1946	6	7	60000	1	24(28,17,17,	4, 0, 0, 0, 0, 0)	64	2112011000000010
1947	6	7	60000	1	96(30,16,10,	4, 0, 0, 0, 0, 0)	64	2112011000000020
1948	6	7	60000	1	96(31,18, 9,	4, 0, 0, 0, 0, 0)	64	2112011000000030
1949	6	7	60000	1	96(30,16,10,	4, 0, 0, 0, 0, 0)	64	2112012000000010
1950	6	7	60000	1	360(32,20, 8,	4, 0, 0, 0, 0, 0)	64	2112012000000020
1951	6	7	60000	1	336(33,22, 7,	4, 0, 0, 0, 0, 0)	64	2112012000000030
1952	6	7	60000	1	96(31,18, 9,	4, 0, 0, 0, 0, 0)	64	2112013000000010
1953	6	7	60000	1	336(33,22, 7,	4, 0, 0, 0, 0, 0)	64	2112013000000020
1954	6	7	60000	1	336(34,24, 6,	4, 0, 0, 0, 0, 0)	64	2112013000000030
1955	6	7	60000	1	288(33,21, 9,	3, 0, 0, 0, 0, 0)	66	2113021000000030
1956	6	7	60000	1	96(30,15,12,	3, 0, 0, 0, 0, 0)	66	2113021000000010
1957	6	7	60000	1	336(32,19,10,	3, 0, 0, 0, 0, 0)	66	2113021000000020
1958	6	7	60000	1	1056(35,25, 7,	3, 0, 0, 0, 0, 0)	66	2113022000000030
1959	6	7	60000	1	384(32,19,10,	3, 0, 0, 0, 0, 0)	66	2113022000000010
1960	6	7	60000	1	1248(34,23, 8,	3, 0, 0, 0, 0, 0)	66	2113022000000020
1961	6	7	60000	1	912(36,27, 6,	3, 0, 0, 0, 0, 0)	66	2113023000000030
1962	6	7	60000	1	384(33,21, 9,	3, 0, 0, 0, 0, 0)	66	2113023000000010
1963	6	7	60000	1	1248(35,25, 7,	3, 0, 0, 0, 0, 0)	66	2113023000000020
1964	6	7	60000	1	48(33,21, 9,	3, 0, 0, 0, 0, 0)	66	2131023000000010
1965	6	7	60000	1	192(35,25, 7,	3, 0, 0, 0, 0, 0)	66	2131023000000020
1966	6	7	60000	1	192(36,27, 6,	3, 0, 0, 0, 0, 0)	66	2131023000000030
1967	6	7	60000	1	96(34,22,10,	2, 0, 0, 0, 0, 0)	68	2132032000000010
1968	6	7	60000	1	288(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2132032000000020
1969	6	7	60000	1	192(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2132032000000030
1970	6	7	60000	1	288(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2132033000000010
1971	6	7	60000	1	816(37,29, 7,	2, 0, 0, 0, 0, 0)	68	2132033000000020
1972	6	7	60000	1	576(38,30, 6,	2, 0, 0, 0, 0, 0)	69	2132033000000030
1973	6	7	60000	1	96(32,19,10,	3, 0, 0, 0, 0, 0)	66	2132012000000010
1974	6	7	60000	1	336(34,23, 8,	3, 0, 0, 0, 0, 0)	66	2132012000000020
1975	6	7	60000	1	288(35,25, 7,	3, 0, 0, 0, 0, 0)	66	2132012000000030
1976	6	7	60000	1	144(33,21, 9,	3, 0, 0, 0, 0, 0)	66	2132013000000010
1977	6	7	60000	1	480(35,25, 7,	3, 0, 0, 0, 0, 0)	66	2132013000000020
1978	6	7	60000	1	480(36,27, 6,	3, 0, 0, 0, 0, 0)	66	2132013000000030
1979	6	7	60000	1	672(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2133022000000030
1980	6	7	60000	1	288(34,22,10,	2, 0, 0, 0, 0, 0)	68	2133022000000010
1981	6	7	60000	1	816(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2133022000000020
1982	6	7	60000	1	888(38,30, 6,	2, 0, 0, 0, 0, 0)	68	2133023000000030
1983	6	7	60000	1	432(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2133023000000010
1984	6	7	60000	1	1224(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2133023000000020
1985	6	7	60000	1	48(33,20,11,	2, 0, 0, 0, 0, 0)	68	2221032000000010
1986	6	7	60000	1	192(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2221032000000020
1987	6	7	60000	1	192(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2221032000000030
1988	6	7	60000	1	96(34,22,10,	2, 0, 0, 0, 0, 0)	69	2221033000000010
1989	6	7	60000	1	384(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2221033000000020
1990	6	7	60000	1	384(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2221033000000030
1991	6	7	60000	1	336(34,22,10,	2, 0, 0, 0, 0, 0)	68	2222022000000010
1992	6	7	60000	1	1584(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2222022000000020
1993	6	7	60000	1	1296(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2222022000000030
1994	6	7	60000	1	384(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2222023000000010
1995	6	7	60000	1	1728(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2222023000000020
1996	6	7	60000	1	1488(38,30, 6,	2, 0, 0, 0, 0, 0)	68	2222023000000030
1997	6	7	60000	1	48(32,18,12,	2, 0, 0, 0, 0, 0)	68	2222021000000010
1998	6	7	60000	1	240(34,22,10,	2, 0, 0, 0, 0, 0)	68	2222021000000020
1999	6	7	60000	1	192(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2222021000000030
2000	6	7	60000	1	48(31,16,13,	2, 0, 0, 0, 0, 0)	68	2223011000000010
2001	6	7	60000	1	192(33,20,11,	2, 0, 0, 0, 0, 0)	68	2223011000000020
2002	6	7	60000	1	192(34,22,10,	2, 0, 0, 0, 0, 0)	68	2223011000000030
2003	6	7	60000	1	240(33,20,11,	2, 0, 0, 0, 0, 0)	68	2223012000000010
2004	6	7	60000	1	864(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2223012000000020
2005	6	7	60000	1	864(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2223012000000030
2006	6	7	60000	1	240(34,22,10,	2, 0, 0, 0, 0, 0)	68	2223013000000010
2007	6	7	60000	1	864(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2223013000000020
2008	6	7	60000	1	720(37,28, 7,	2, 0, 0, 0, 0, 0)	69	2223013000000030
2009	6	7	60000	1	48(32,19,10,	3, 0, 0, 0, 0, 0)	66	3121022000000010
2010	6	7	60000	1	192(34,23, 8,	3, 0, 0, 0, 0, 0)	66	3121022000000020
2011	6	7	60000	1	192(35,25, 7,	3, 0, 0, 0, 0, 0)	66	3121022000000030
2012	6	7	60000	1	96(33,21, 9,	3, 0, 0, 0, 0, 0)	66	3121023000000010
2013	6	7	60000	1	384(35,25, 7,	3, 0, 0, 0, 0, 0)	66	3121023000000020
2014	6	7	60000	1	384(36,27, 6,	3, 0, 0, 0, 0, 0)	66	3121023000000030
2015	6	7	60000	1	288(34,22,10,	2, 0, 0, 0, 0, 0)	68	3122032000000010
2016	6	7	60000	1	912(36,26, 8,	2, 0, 0, 0, 0, 0)	68	3122032000000020
2017	6	7	60000	1	768(37,28, 7,	2, 0, 0, 0, 0, 0)	68	3122032000000030
2018	6	7	60000	1	432(35,24, 9,	2, 0, 0, 0, 0, 0)	68	3122033000000010
2019	6	7	60000	1	1272(37,29, 7,	2, 0, 0, 0, 0, 0)	68	3122033000000020
2020	6	7	60000	1	1008(38,30, 6,	2, 0, 0, 0, 0, 0)	68	3122033000000030
2021	6	7	60000	1	48(30,15,12,	3, 0, 0, 0, 0, 0)	66	3122011000000010
2022	6	7	60000	1	192(32,19,10,	3, 0, 0, 0, 0, 0)	66	3122011000000020
2023	6	7	60000	1	192(33,21, 9,	3, 0, 0, 0, 0, 0)	66	3122011000000030
2024	6	7	60000	1	192(32,19,10,	3, 0, 0, 0, 0, 0)	66	3122012000000010
2025	6	7	60000	1	720(34,23, 8,	3, 0, 0, 0, 0, 0)	66	3122012000000020
2026	6	7	60000	1	672(35,25, 7,	3, 0, 0, 0, 0, 0)	66	3122012000000030
2027	6	7	60000	1	192(33,21, 9,	3, 0, 0, 0, 0, 0)	66	3122013000000010
2028	6	7	60000	1	672(35,25, 7,	3, 0, 0, 0, 0, 0)	66	3122013000000020
2029	6	7	60000	1	672(36,27, 6,	3, 0, 0, 0, 0, 0)	66	3122013000000030
2030	6	7	60000	1	144(32,18,12,	2, 0, 0, 0, 0, 0)	68	3123021000000010
2031	6	7	60000	1	456(34,22,10,	2, 0, 0, 0, 0, 0)	68	3123021000000020
2032	6	7	60000	1	336(35,24, 9,	2, 0, 0, 0, 0, 0)	68	3123021000000030
2033	6	7	60000	1	576(34,22,10,	2, 0, 0, 0, 0, 0)	68	3123022000000010
2034	6	7	60000	1	1680(36,26, 8,	2, 0, 0, 0, 0, 0)	68	3123022000000020
2035	6	7	60000	1	1248(37,28, 7,	2, 0, 0, 0, 0, 0)	68	3123022000000030
2036	6	7	60000	1	576(35,24, 9,	2, 0, 0, 0, 0, 0)	68	3123023000000010
2037	6	7	60000	1	1680(37,28, 7,	2, 0, 0, 0, 0, 0)	68	3123023000000020
2038	6	7	60000	1	1080(38,30, 6,	2, 0, 0, 0, 0, 0)	68	3123023000000030
2039	6	7	60000	1	48(32,18,12,	2, 0, 0, 0, 0, 0)	68	3211032000000010
2040	6							

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	C.OOE	TERM	GRAPH	MATRIX
2049	6	7	60000	1	1152(35,24, 9, 2, 0, 0, 0, 0, 0)	68	3212022000000020		
2050	6	7	60000	1	1104(36,26, 8, 2, 0, 0, 0, 0, 0)	68	3212022000000030		
2051	6	7	60000	1	240(34,22,10, 2, 0, 0, 0, 0, 0)	68	3212023000000010		
2052	6	7	60000	1	1104(36,26, 8, 2, 0, 0, 0, 0, 0)	68	3212023000000020		
2053	6	7	60000	1	1056(37,28, 7, 2, 0, 0, 0, 0, 0)	68	3212023000000030		
2054	6	7	60000	1	48(30,14,14, 2, 0, 0, 0, 0, 0)	68	3213011000000010		
2055	6	7	60000	1	192(32,18,12, 2, 0, 0, 0, 0, 0)	68	3213011000000020		
2056	6	7	60000	1	192(33,20,11, 2, 0, 0, 0, 0, 0)	68	3213011000000030		
2057	6	7	60000	1	168(32,18,12, 2, 0, 0, 0, 0, 0)	68	3213012000000010		
2058	6	7	60000	1	624(34,22,10, 2, 0, 0, 0, 0, 0)	68	3213012000000020		
2059	6	7	60000	1	624(35,24, 9, 2, 0, 0, 0, 0, 0)	68	3213012000000030		
2060	6	7	60000	1	144(33,20,11, 2, 0, 0, 0, 0, 0)	68	3213013000000010		
2061	6	7	60000	1	528(35,24, 9, 2, 0, 0, 0, 0, 0)	68	3213013000000020		
2062	6	7	60000	1	456(36,26, 8, 2, 0, 0, 0, 0, 0)	68	3213013000000030		
2063	6	7	60000	2	96(30,16,10, 4, 0, 0, 0, 0, 0)	64	1122012000000001		
2064	6	7	60000	2	288(32,20, 8, 4, 0, 0, 0, 0, 0)	64	1122012000000002		
2065	6	7	60000	2	192(33,22, 7, 4, 0, 0, 0, 0, 0)	64	1122012000000003		
2066	6	7	60000	2	576(34,24, 6, 4, 0, 0, 0, 0, 0)	64	1122013000000003		
2067	6	7	60000	2	288(31,18, 9, 4, 0, 0, 0, 0, 0)	64	1122013000000001		
2068	6	7	60000	2	768(33,22, 7, 4, 0, 0, 0, 0, 0)	64	1122013000000002		
2069	6	7	60000	2	288(33,21, 9, 3, 0, 0, 0, 0, 0)	66	2131023000000001		
2070	6	7	60000	2	768(35,25, 7, 3, 0, 0, 0, 0, 0)	66	2131023000000002		
2071	6	7	60000	2	576(36,27, 6, 3, 0, 0, 0, 0, 0)	66	2131023000000003		
2072	6	7	60000	2	192(32,19,10, 3, 0, 0, 0, 0, 0)	66	3121022000000001		
2073	6	7	60000	2	576(34,23, 8, 3, 0, 0, 0, 0, 0)	66	3121022000000002		
2074	6	7	60000	2	480(35,25, 7, 3, 0, 0, 0, 0, 0)	66	3121022000000003		
2075	6	7	60000	2	576(33,21, 9, 3, 0, 0, 0, 0, 0)	66	3121023000000001		
2076	6	7	60000	2	1536(35,25, 7, 3, 0, 0, 0, 0, 0)	66	3121023000000002		
2077	6	7	60000	2	960(36,27, 6, 3, 0, 0, 0, 0, 0)	66	3121023000000003		
2078	6	7	60000	2	192(33,20,11, 2, 0, 0, 0, 0, 0)	68	1232022000000001		
2079	6	7	60000	2	576(35,24, 9, 2, 0, 0, 0, 0, 0)	68	1232022000000002		
2080	6	7	60000	2	384(36,26, 8, 2, 0, 0, 0, 0, 0)	68	1232022000000003		
2081	6	7	60000	2	576(34,22,10, 2, 0, 0, 0, 0, 0)	68	1232023000000001		
2082	6	7	60000	2	1440(36,26, 8, 2, 0, 0, 0, 0, 0)	68	1232023000000002		
2083	6	7	60000	2	1056(37,28, 7, 2, 0, 0, 0, 0, 0)	68	1232023000000003		
2084	6	7	60000	2	192(32,18,12, 2, 0, 0, 0, 0, 0)	68	1233012000000001		
2085	6	7	60000	2	576(34,22,10, 2, 0, 0, 0, 0, 0)	68	1233012000000002		
2086	6	7	60000	2	480(35,24, 9, 2, 0, 0, 0, 0, 0)	68	1233012000000003		
2087	6	7	60000	2	432(33,20,11, 2, 0, 0, 0, 0, 0)	68	1233013000000001		
2088	6	7	60000	2	1104(35,24, 9, 2, 0, 0, 0, 0, 0)	68	1233013000000002		
2089	6	7	60000	2	672(36,26, 8, 2, 0, 0, 0, 0, 0)	68	1233013000000003		
2090	6	7	60000	2	384(32,19,10, 3, 0, 0, 0, 0, 0)	66	2132012000000001		
2091	6	7	60000	2	1248(34,23, 8, 3, 0, 0, 0, 0, 0)	66	2132012000000002		
2092	6	7	60000	2	960(35,25, 7, 3, 0, 0, 0, 0, 0)	66	2132012000000003		
2093	6	7	60000	2	1632(36,27, 6, 3, 0, 0, 0, 0, 0)	66	2132013000000003		
2094	6	7	60000	2	864(33,21, 9, 3, 0, 0, 0, 0, 0)	66	2132013000000001		
2095	6	7	60000	2	2208(35,25, 7, 3, 0, 0, 0, 0, 0)	66	2132013000000002		
2096	6	7	60000	2	24(28,12,12, 4, 0, 0, 0, 0, 0)	64	2112011000000001		
2097	6	7	60000	2	96(30,16,10, 4, 0, 0, 0, 0, 0)	64	2112011000000002		
2098	6	7	60000	2	96(31,18, 9, 4, 0, 0, 0, 0, 0)	64	2112011000000003		
2099	6	7	60000	2	192(30,16,10, 4, 0, 0, 0, 0, 0)	64	2112012000000001		
2100	6	7	60000	2	624(32,20, 8, 4, 0, 0, 0, 0, 0)	64	2112012000000002		
2101	6	7	60000	2	480(33,22, 7, 4, 0, 0, 0, 0, 0)	64	2112012000000003		
2102	6	7	60000	2	576(34,24, 6, 4, 0, 0, 0, 0, 0)	64	2112013000000003		
2103	6	7	60000	2	288(31,18, 9, 4, 0, 0, 0, 0, 0)	64	2112013000000001		
2104	6	7	60000	2	768(33,22, 7, 4, 0, 0, 0, 0, 0)	64	2112013000000002		
2105	6	7	60000	2	96(30,15,12, 3, 0, 0, 0, 0, 0)	66	3122011000000001		
2106	6	7	60000	2	384(32,19,10, 3, 0, 0, 0, 0, 0)	66	3122011000000002		
2107	6	7	60000	2	384(33,21, 9, 3, 0, 0, 0, 0, 0)	66	3122011000000003		
2108	6	7	60000	2	768(32,19,10, 3, 0, 0, 0, 0, 0)	66	3122012000000001		
2109	6	7	60000	2	2400(34,23, 8, 3, 0, 0, 0, 0, 0)	66	3122012000000002		
2110	6	7	60000	2	1920(35,25, 7, 3, 0, 0, 0, 0, 0)	66	3122012000000003		
2111	6	7	60000	2	2016(36,27, 6, 3, 0, 0, 0, 0, 0)	66	3122013000000003		
2112	6	7	60000	2	1152(33,21, 9, 3, 0, 0, 0, 0, 0)	66	3122013000000001		
2113	6	7	60000	2	3072(35,25, 7, 3, 0, 0, 0, 0, 0)	66	3122013000000002		
2114	6	7	60000	2	96(34,22,10, 2, 0, 0, 0, 0, 0)	68	2132032000000001		
2115	6	7	60000	2	336(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2132032000000002		
2116	6	7	60000	2	288(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2132032000000003		
2117	6	7	60000	2	432(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2132033000000001		
2118	6	7	60000	2	1104(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2132033000000002		
2119	6	7	60000	2	816(38,30, 6, 2, 0, 0, 0, 0, 0)	68	2132033000000003		
2120	6	7	60000	2	576(34,22,10, 2, 0, 0, 0, 0, 0)	68	2133022000000001		
2121	6	7	60000	2	1824(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2133022000000002		
2122	6	7	60000	2	1536(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2133022000000003		
2123	6	7	60000	2	1296(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2133023000000001		
2124	6	7	60000	2	3312(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2133023000000002		
2125	6	7	60000	2	2208(38,30, 6, 2, 0, 0, 0, 0, 0)	68	2133023000000003		
2126	6	7	60000	2	672(34,22,10, 2, 0, 0, 0, 0, 0)	68	2222022000000001		
2127	6	7	60000	2	2112(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2222022000000002		
2128	6	7	60000	2	1536(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2222022000000003		
2129	6	7	60000	2	2112(38,30, 6, 2, 0, 0, 0, 0, 0)	68	2222023000000003		
2130	6	7	60000	2	1152(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2222023000000001		
2131	6	7	60000	2	2784(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2222023000000002		
2132	6	7	60000	2	48(32,18,12, 2, 0, 0, 0, 0, 0)	68	2222021000000001		
2133	6	7	60000	2	192(34,22,10, 2, 0, 0, 0, 0, 0)	68	2222021000000002		
2134	6	7	60000	2	192(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2222021000000003		
2135	6	7	60000	2	96(31,16,13, 2, 0, 0, 0, 0, 0)	68	2223011000000001		
2136	6	7	60000	2	384(33,20,11, 2, 0, 0, 0, 0, 0)	68	2223011000000002		
2137	6	7	60000	2	384(34,22,10, 2, 0, 0, 0, 0, 0)	68	2223011000000003		
2138	6	7	60000	2	960(33,20,11, 2, 0, 0, 0, 0, 0)	68	2223012000000001		
2139	6	7	60000	2	2976(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2223012000000002		
2140	6	7	60000	2	2304(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2223012000000003		
2141	6	7	60000	2	2400(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2223013000000003		
2142	6	7	60000	2	1440(34,22,10, 2, 0, 0, 0, 0, 0)	68	2223013000000001		
2143	6	7	60000	2	3552(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2223013000000002		
2144	6	7	60000	2	72(32,18,12, 2, 0, 0, 0, 0, 0)	68	3123021000000001		
2145	6	7	60000	2	288(34,22,10, 2, 0, 0, 0, 0, 0)	68	3123021000000002		
2146	6	7	60000	2	288(35,24, 9, 2, 0, 0, 0, 0, 0)	68	3123021000000003		
2147	6	7							

GRAPH	N	L	C	SYMMETRY NUMFR	COUNT	CODE	TERM	GRAPH MATRIX
2152	6	7	60000	2	1392138,30,6,	2,0,0,0,0,0,0)	68	312302300000003
2153	6	7	60000	2	48130,14,14,	2,0,0,0,0,0,0)	68	321301100000001
2154	6	7	60000	2	192132,18,12,	2,0,0,0,0,0,0)	68	321301100000002
2155	6	7	60000	2	192133,20,11,	2,0,0,0,0,0,0)	68	321301100000003
2156	6	7	60000	2	336132,18,12,	2,0,0,0,0,0,0)	68	321301200000001
2157	6	7	60000	2	1032134,22,10,	2,0,0,0,0,0,0)	68	321301200000002
2158	6	7	60000	2	816135,24,9,	2,0,0,0,0,0,0)	68	321301200000003
2159	6	7	60000	2	432133,20,11,	2,0,0,0,0,0,0)	68	321301300000001
2160	6	7	60000	2	1104135,24,9,	2,0,0,0,0,0,0)	68	321301300000002
2161	6	7	60000	2	672136,26,8,	2,0,0,0,0,0,0)	68	321301300000003
2162	6	7	60000	2	48128,12,12,	4,0,0,0,0,0,0)	64	211100021000010
2163	6	7	60000	2	192130,16,10,	4,0,0,0,0,0,0)	64	211100021000020
2164	6	7	60000	2	192131,18,9,	4,0,0,0,0,0,0)	64	211100021000030
2165	6	7	60000	2	48128,12,12,	4,0,0,0,0,0,0)	64	121100021000010
2166	6	7	60000	2	192130,16,10,	4,0,0,0,0,0,0)	64	121100021000020
2167	6	7	60000	2	192131,18,9,	4,0,0,0,0,0,0)	64	121100021000030
2168	6	7	60000	2	96130,15,12,	3,0,0,0,0,0,0)	66	121100032000010
2169	6	7	60000	2	384132,19,10,	3,0,0,0,0,0,0)	66	121100032000020
2170	6	7	60000	2	384133,21,9,	3,0,0,0,0,0,0)	66	121100032000030
2171	6	7	60000	2	96130,15,12,	3,0,0,0,0,0,0)	66	211100032000010
2172	6	7	60000	2	384132,19,10,	3,0,0,0,0,0,0)	66	211100032000020
2173	6	7	60000	2	384133,21,9,	3,0,0,0,0,0,0)	66	211100032000030
2174	6	7	60000	2	384130,16,10,	4,0,0,0,0,0,0)	64	211200021000010
2175	6	7	60000	2	1296132,20,8,	4,0,0,0,0,0,0)	64	211200021000020
2176	6	7	60000	2	1056133,22,7,	4,0,0,0,0,0,0)	64	211200021000030
2177	6	7	60000	2	384130,16,10,	4,0,0,0,0,0,0)	64	121200021000010
2178	6	7	60000	2	1296132,20,8,	4,0,0,0,0,0,0)	64	121200021000020
2179	6	7	60000	2	1056133,22,7,	4,0,0,0,0,0,0)	64	121200021000030
2180	6	7	60000	2	768132,19,10,	3,0,0,0,0,0,0)	66	121200032000010
2181	6	7	60000	2	2592134,23,8,	3,0,0,0,0,0,0)	66	121200032000020
2182	6	7	60000	2	2112135,25,7,	3,0,0,0,0,0,0)	66	121200032000030
2183	6	7	60000	2	768132,19,10,	3,0,0,0,0,0,0)	66	211200032000010
2184	6	7	60000	2	2592134,23,8,	3,0,0,0,0,0,0)	66	211200032000020
2185	6	7	60000	2	2112135,25,7,	3,0,0,0,0,0,0)	66	211200032000030
2186	6	7	60000	2	1248134,24,6,	4,0,0,0,0,0,0)	64	211300021000030
2187	6	7	60000	2	576131,18,9,	4,0,0,0,0,0,0)	64	211300021000010
2188	6	7	60000	2	1632133,22,7,	4,0,0,0,0,0,0)	64	211300021000020
2189	6	7	60000	2	1248134,24,6,	4,0,0,0,0,0,0)	64	121300021000030
2190	6	7	60000	2	576131,18,9,	4,0,0,0,0,0,0)	64	121300021000010
2191	6	7	60000	2	1632133,22,7,	4,0,0,0,0,0,0)	64	121300021000020
2192	6	7	60000	2	2496136,27,6,	3,0,0,0,0,0,0)	66	121300032000030
2193	6	7	60000	2	1152133,21,9,	3,0,0,0,0,0,0)	66	121300032000010
2194	6	7	60000	2	3264135,25,7,	3,0,0,0,0,0,0)	66	121300032000020
2195	6	7	60000	2	2496136,27,6,	3,0,0,0,0,0,0)	66	211300032000030
2196	6	7	60000	2	1152133,21,9,	3,0,0,0,0,0,0)	66	211300032000010
2197	6	7	60000	2	3264135,25,7,	3,0,0,0,0,0,0)	66	211300032000020
2198	6	7	60000	2	48130,14,14,	2,0,0,0,0,0,0)	68	312100031000010
2199	6	7	60000	2	192132,18,12,	2,0,0,0,0,0,0)	68	312100031000020
2200	6	7	60000	2	192133,20,11,	2,0,0,0,0,0,0)	68	312100031000030
2201	6	7	60000	2	96131,16,13,	2,0,0,0,0,0,0)	68	312100022000010
2202	6	7	60000	2	384133,20,11,	2,0,0,0,0,0,0)	68	312100022000020
2203	6	7	60000	2	384134,22,10,	2,0,0,0,0,0,0)	68	312100022000030
2204	6	7	60000	2	48130,14,14,	2,0,0,0,0,0,0)	68	132100031000010
2205	6	7	60000	2	192132,18,12,	2,0,0,0,0,0,0)	68	132100031000020
2206	6	7	60000	2	192133,20,11,	2,0,0,0,0,0,0)	68	132100031000030
2207	6	7	60000	2	384132,18,12,	2,0,0,0,0,0,0)	68	312200031000010
2208	6	7	60000	2	1248134,22,10,	2,0,0,0,0,0,0)	68	312200031000020
2209	6	7	60000	2	1056135,24,9,	2,0,0,0,0,0,0)	68	312200031000030
2210	6	7	60000	2	768133,20,11,	2,0,0,0,0,0,0)	68	312200022000010
2211	6	7	60000	2	2496135,24,9,	2,0,0,0,0,0,0)	68	312200022000020
2212	6	7	60000	2	2112136,26,8,	2,0,0,0,0,0,0)	68	312200022000030
2213	6	7	60000	2	384132,18,12,	2,0,0,0,0,0,0)	68	132200031000010
2214	6	7	60000	2	1248134,22,10,	2,0,0,0,0,0,0)	68	132200031000020
2215	6	7	60000	2	1056135,24,9,	2,0,0,0,0,0,0)	68	132200031000030
2216	6	7	60000	2	576133,20,11,	2,0,0,0,0,0,0)	68	312300031000010
2217	6	7	60000	2	1632135,24,9,	2,0,0,0,0,0,0)	68	312300031000020
2218	6	7	60000	2	1104136,26,8,	2,0,0,0,0,0,0)	68	312300031000030
2219	6	7	60000	2	1152134,22,10,	2,0,0,0,0,0,0)	68	312300022000010
2220	6	7	60000	2	3264136,26,8,	2,0,0,0,0,0,0)	68	312300022000020
2221	6	7	60000	2	2208137,28,7,	2,0,0,0,0,0,0)	68	312300022000030
2222	6	7	60000	2	576133,20,11,	2,0,0,0,0,0,0)	68	132300031000010
2223	6	7	60000	2	1632135,24,9,	2,0,0,0,0,0,0)	68	132300031000020
2224	6	7	60000	2	1104136,26,8,	2,0,0,0,0,0,0)	68	132300031000030
2225	6	7	60000	2	192130,15,12,	3,0,0,0,0,0,0)	66	321100021000010
2226	6	7	60000	2	768132,19,10,	3,0,0,0,0,0,0)	66	321100021000020
2227	6	7	60000	2	768133,21,9,	3,0,0,0,0,0,0)	66	321100021000030
2228	6	7	60000	2	288132,18,12,	2,0,0,0,0,0,0)	68	321100032000010
2229	6	7	60000	2	1152134,22,10,	2,0,0,0,0,0,0)	68	321100032000020
2230	6	7	60000	2	1152135,24,9,	2,0,0,0,0,0,0)	68	321100032000030
2231	6	7	60000	2	288132,18,12,	2,0,0,0,0,0,0)	68	231100032000010
2232	6	7	60000	2	1152134,22,10,	2,0,0,0,0,0,0)	68	231100032000020
2233	6	7	60000	2	1152135,24,9,	2,0,0,0,0,0,0)	68	231100032000030
2234	6	7	60000	2	192130,15,12,	3,0,0,0,0,0,0)	66	231100021000010
2235	6	7	60000	2	768132,19,10,	3,0,0,0,0,0,0)	66	231100021000020
2236	6	7	60000	2	768133,21,9,	3,0,0,0,0,0,0)	66	231100021000030
2237	6	7	60000	2	1344132,19,10,	3,0,0,0,0,0,0)	66	321200021000010
2238	6	7	60000	2	4320134,23,8,	3,0,0,0,0,0,0)	66	321200021000020
2239	6	7	60000	2	3456135,25,7,	3,0,0,0,0,0,0)	66	321200021000030
2240	6	7	60000	2	1824134,22,10,	2,0,0,0,0,0,0)	68	321200032000010
2241	6	7	60000	2	5904136,26,8,	2,0,0,0,0,0,0)	68	321200032000020
2242	6	7	60000	2	4800137,28,7,	2,0,0,0,0,0,0)	68	321200032000030
2243	6	7	60000	2	1824134,22,10,	2,0,0,0,0,0,0)	68	231200032000010
2244	6	7	60000	2	5808136,26,8,	2,0,0,0,0,0,0)	68	231200032000020
2245	6	7	60000	2	4800137,28,7,	2,0,0,0,0,0,0)	68	231200032000030
2246	6	7	60000	2	1344132,19,10,	3,0,0,0,0,0,0)	66	231200021000010
2247	6	7	60000	2	4320134,23,8,	3,0,0,0,0,0,0)	66	231200021000020
2248	6	7	60000	2	3456135,25,7,	3,0,0,0,0,0,0)	66	231200021000030
2249	6	7	60000	2	1728133,21,9,	3,0,0,0,0,0,0)	66	321300021000010
2250	6	7	60000	2	4608135,25,7,	3,0,0,0,0,0,0)	66	321300021000020
2251	6	7	60000	2	3168136,27,6,	3,0,0,0,0,0,0)	66	321300021000030
2252	6	7	60000	2	2016135,24,9,	2,0,0,0,0,0,0)	68	321300032000010
2253	6	7	60000	2	5472137,28,7,	2,0,0,0,0,0,0)	68	321300032000020
2254	6	7	60000	2	3792138,30,6,	2,0,0,0,0,0,0)	68	321300032000030

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOF	TERM	GRAPH MATRIX
2255	6	7	60000	2	2304(35,24,9,2,0,0,0,0,0,0)	68	231300032000010	
2256	6	7	60000	2	6144(37,28,7,2,0,0,0,0,0,0)	68	231300032000020	
2257	6	7	60000	2	4368(38,30,6,2,0,0,0,0,0,0)	68	231300032000030	
2258	6	7	60000	2	1728(33,21,9,3,0,0,0,0,0,0)	66	231300021000010	
2259	6	7	60000	2	4608(35,25,7,3,0,0,0,0,0,0)	66	231300021000020	
2260	6	7	60000	2	3168(36,27,6,3,0,0,0,0,0,0)	66	231300021000030	
2261	6	7	60000	2	96(31,16,13,2,0,0,0,0,0,0)	68	222100031000010	
2262	6	7	60000	2	384(33,20,11,2,0,0,0,0,0,0)	68	222100031000020	
2263	6	7	60000	2	384(34,22,10,2,0,0,0,0,0,0)	68	222100031000030	
2264	6	7	60000	2	96(32,18,12,2,0,0,0,0,0,0)	68	222100022000010	
2265	6	7	60000	2	384(34,22,10,2,0,0,0,0,0,0)	68	222100022000020	
2266	6	7	60000	2	384(35,24,9,2,0,0,0,0,0,0)	68	222100022000030	
2267	6	7	60000	2	960(33,20,11,2,0,0,0,0,0,0)	68	222200031000010	
2268	6	7	60000	2	3168(35,24,9,2,0,0,0,0,0,0)	68	222200031000020	
2269	6	7	60000	2	2496(36,26,8,2,0,0,0,0,0,0)	68	222200031000030	
2270	6	7	60000	2	960(34,22,10,2,0,0,0,0,0,0)	68	222200032000010	
2271	6	7	60000	2	3168(36,26,8,2,0,0,0,0,0,0)	68	222200032000020	
2272	6	7	60000	2	2496(37,28,7,2,0,0,0,0,0,0)	68	222200032000030	
2273	6	7	60000	2	2880(37,28,7,2,0,0,0,0,0,0)	68	222300031000010	
2274	6	7	60000	2	1440(34,22,10,2,0,0,0,0,0,0)	68	222300031000020	
2275	6	7	60000	2	3744(36,26,8,2,0,0,0,0,0,0)	68	222300031000030	
2276	6	7	60000	2	2592(38,30,6,2,0,0,0,0,0,0)	68	222300022000010	
2277	6	7	60000	2	1296(35,24,9,2,0,0,0,0,0,0)	68	222300022000020	
2278	6	7	60000	2	3408(37,28,7,2,0,0,0,0,0,0)	68	222300022000030	
2279	6	7	60000	8	768(34,23,8,3,0,0,0,0,0,0)	66	222200100130000	
2280	6	7	60000	8	1536(32,19,10,3,0,0,0,0,0,0)	66	321200100120000	
2281	6	7	60000	8	3072(33,21,9,3,0,0,0,0,0,0)	66	321200100130000	
2282	6	7	60000	8	768(36,26,8,2,0,0,0,0,0,0)	68	222300100230000	
2283	6	7	60000	8	1536(34,22,10,2,0,0,0,0,0,0)	68	312300200120000	
2284	6	7	60000	8	3072(35,24,9,2,0,0,0,0,0,0)	68	312300200130000	
2285	6	7	60000	8	768(35,24,9,2,0,0,0,0,0,0)	68	213300200130000	
2286	6	7	60000	8	3072(35,24,9,2,0,0,0,0,0,0)	68	222300200120000	
2287	6	7	60000	8	5760(36,26,8,2,0,0,0,0,0,0)	68	222300200130000	
2288	6	7	60000	8	384(32,18,12,2,0,0,0,0,0,0)	68	321300200110000	
2289	6	7	60000	8	4224(34,22,10,2,0,0,0,0,0,0)	68	321300200120000	
2290	6	7	60000	8	5376(35,24,9,2,0,0,0,0,0,0)	68	321300200130000	
2291	6	7	60000	8	288(36,26,8,2,0,0,0,0,0,0)	68	222200200220000	
2292	6	7	60000	8	1152(37,28,7,2,0,0,0,0,0,0)	68	222200200230000	
2293	6	7	60000	2	192(28,12,12,4,0,0,0,0,0,0)	64	211100200100001	
2294	6	7	60000	2	720(30,16,10,4,0,0,0,0,0,0)	64	211100200100002	
2295	6	7	60000	2	672(31,18,9,4,0,0,0,0,0,0)	64	211100200100003	
2296	6	7	60000	2	1056(33,21,9,3,0,0,0,0,0,0)	66	211100300200003	
2297	6	7	60000	2	384(30,15,12,3,0,0,0,0,0,0)	66	211100300200001	
2298	6	7	60000	2	1248(32,19,10,3,0,0,0,0,0,0)	66	211100300200002	
2299	6	7	60000	2	192(30,16,10,4,0,0,0,0,0,0)	64	211200100100002	
2300	6	7	60000	2	384(31,18,9,4,0,0,0,0,0,0)	64	211200100100003	
2301	6	7	60000	2	1728(34,23,8,3,0,0,0,0,0,0)	66	211200200200003	
2302	6	7	60000	2	384(31,17,11,3,0,0,0,0,0,0)	66	211200200200001	
2303	6	7	60000	2	1824(33,21,9,3,0,0,0,0,0,0)	66	211200200200002	
2304	6	7	60000	2	1440(33,21,9,3,0,0,0,0,0,0)	66	211200300100003	
2305	6	7	60000	2	384(30,15,12,3,0,0,0,0,0,0)	66	211200300100001	
2306	6	7	60000	2	1440(32,19,10,3,0,0,0,0,0,0)	66	211200300100002	
2307	6	7	60000	2	384(32,19,10,3,0,0,0,0,0,0)	66	211300100200002	
2308	6	7	60000	2	576(33,21,9,3,0,0,0,0,0,0)	66	211300100200003	
2309	6	7	60000	2	768(32,19,10,3,0,0,0,0,0,0)	66	211300200100002	
2310	6	7	60000	2	1056(33,21,9,3,0,0,0,0,0,0)	66	211300200100003	
2311	6	7	60000	2	192(30,15,12,3,0,0,0,0,0,0)	66	312100200100001	
2312	6	7	60000	2	672(32,19,10,3,0,0,0,0,0,0)	66	312100200100002	
2313	6	7	60000	2	672(33,21,9,3,0,0,0,0,0,0)	66	312100200100003	
2314	6	7	60000	2	384(32,18,12,2,0,0,0,0,0,0)	68	312100300200001	
2315	6	7	60000	2	1748(34,22,10,2,0,0,0,0,0,0)	68	312100300200002	
2316	6	7	60000	2	912(35,24,9,2,0,0,0,0,0,0)	68	312100300200003	
2317	6	7	60000	2	192(32,19,10,3,0,0,0,0,0,0)	66	312200100100002	
2318	6	7	60000	2	384(33,21,9,3,0,0,0,0,0,0)	66	312200100100003	
2319	6	7	60000	2	384(33,20,11,2,0,0,0,0,0,0)	68	312200200200001	
2320	6	7	60000	2	1728(35,24,9,2,0,0,0,0,0,0)	68	312200200200002	
2321	6	7	60000	2	1728(36,26,8,2,0,0,0,0,0,0)	68	312200200200003	
2322	6	7	60000	2	384(32,18,12,2,0,0,0,0,0,0)	68	312200300100001	
2323	6	7	60000	2	1440(34,22,10,2,0,0,0,0,0,0)	68	312200300100002	
2324	6	7	60000	2	1248(35,24,9,2,0,0,0,0,0,0)	68	312200300100003	
2325	6	7	60000	2	384(34,22,10,2,0,0,0,0,0,0)	68	312300100200002	
2326	6	7	60000	2	576(35,24,9,2,0,0,0,0,0,0)	68	312300100200003	
2327	6	7	60000	2	768(34,22,10,2,0,0,0,0,0,0)	68	312300200100002	
2328	6	7	60000	2	1056(35,24,9,2,0,0,0,0,0,0)	68	312300200100003	
2329	6	7	60000	2	192(33,21,9,3,0,0,0,0,0,0)	66	112200300100003	
2330	6	7	60000	2	48(30,15,12,3,0,0,0,0,0,0)	66	112200300100001	
2331	6	7	60000	2	192(32,19,10,3,0,0,0,0,0,0)	66	112200300100002	
2332	6	7	60000	2	96(32,19,10,3,0,0,0,0,0,0)	66	112300200100002	
2333	6	7	60000	2	144(33,21,9,3,0,0,0,0,0,0)	66	112300200100003	
2334	6	7	60000	2	96(33,20,11,2,0,0,0,0,0,0)	68	213200200200001	
2335	6	7	60000	2	480(35,24,9,2,0,0,0,0,0,0)	68	213200200200002	
2336	6	7	60000	2	480(36,26,8,2,0,0,0,0,0,0)	68	213200200200003	
2337	6	7	60000	2	192(32,18,12,2,0,0,0,0,0,0)	68	213200300100001	
2338	6	7	60000	2	672(34,22,10,2,0,0,0,0,0,0)	68	213200300100002	
2339	6	7	60000	2	672(35,24,9,2,0,0,0,0,0,0)	68	213200300100003	
2340	6	7	60000	2	384(34,22,10,2,0,0,0,0,0,0)	68	213300200100002	
2341	6	7	60000	2	576(35,24,9,2,0,0,0,0,0,0)	68	213300200100003	
2342	6	7	60000	2	96(30,15,12,3,0,0,0,0,0,0)	66	321100100200001	
2343	6	7	60000	2	384(32,19,10,3,0,0,0,0,0,0)	66	321100100200002	
2344	6	7	60000	2	384(33,21,9,3,0,0,0,0,0,0)	66	321100100200003	
2345	6	7	60000	2	384(30,15,12,3,0,0,0,0,0,0)	66	321100200100001	
2346	6	7	60000	2	1344(32,19,10,3,0,0,0,0,0,0)	66	321100200100002	
2347	6	7	60000	2	1248(33,21,9,3,0,0,0,0,0,0)	66	321100200100003	
2348	6	7	60000	2	384(32,18,12,2,0,0,0,0,0,0)	68	321100200300001	
2349	6	7	60000	2	1248(34,22,10,2,0,0,0,0,0,0)	68	321100200300002	
2350	6	7	60000	2	1056(35,24,9,2,0,0,0,0,0,0)	68	321100200300003	
2351	6	7	60000	2	768(32,18,12,2,0,0,0,0,0,0)	68	321100300200001	
2352	6	7	60000	2	2400(34,22,10,2,0,0,0,0,0,0)	68	321100300200002	
2353	6	7	60000	2	1824(35,24,9,2,0,0,0,0,0,0)	68	321100300200003	
2354	6	7	60000	2	384(32,19,10,3,0,0,0,0,0,0)	66	321200100100002	
2355	6	7	60000	2	768(33,21,9,3,0,0,0,0,0,0)	66	321200100100003	
2356	6	7	60000	2	960(33,20,11,2,0,0,0,0,0,0)	68	321200200200001	
2357	6	7	60000	2	4416(35,24,9,2,0,0,0,0,0,0)	68	321200200200002	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2358	6	7	60000	2	4128(36,26,8,2,0,0,0,0,0,0)	68	321200200200003	
2359	6	7	60000	2	672(32,18,12,2,0,0,0,0,0,0)	68	321200300100001	
2360	6	7	60000	2	2400(34,22,10,2,0,0,0,0,0,0)	68	321200300100002	
2361	6	7	60000	2	2160(35,24,9,2,0,0,0,0,0,0)	68	321200300100003	
2362	6	7	60000	2	192(32,18,12,2,0,0,0,0,0,0)	68	321200100300001	
2363	6	7	60000	2	768(34,22,10,2,0,0,0,0,0,0)	68	321200100300002	
2364	6	7	60000	2	768(35,24,9,2,0,0,0,0,0,0)	68	321200100300003	
2365	6	7	60000	2	768(34,22,10,2,0,0,0,0,0,0)	68	321300100200002	
2366	6	7	60000	2	1152(35,24,9,2,0,0,0,0,0,0)	68	321300100200003	
2367	6	7	60000	2	1344(34,22,10,2,0,0,0,0,0,0)	68	321300200100002	
2368	6	7	60000	2	1728(35,24,9,2,0,0,0,0,0,0)	68	321300200100003	
2369	6	7	60000	2	192(31,17,11,3,0,0,0,0,0,0)	66	222100200100001	
2370	6	7	60000	2	672(33,21,9,3,0,0,0,0,0,0)	66	222100200100002	
2371	6	7	60000	2	576(34,23,8,3,0,0,0,0,0,0)	66	222100200100003	
2372	6	7	60000	2	96(33,20,11,2,0,0,0,0,0,0)	68	222100200300001	
2373	6	7	60000	2	336(35,24,9,2,0,0,0,0,0,0)	68	222100200300002	
2374	6	7	60000	2	288(36,26,8,2,0,0,0,0,0,0)	68	222100200300003	
2375	6	7	60000	2	960(36,26,8,2,0,0,0,0,0,0)	68	222100300200003	
2376	6	7	60000	2	384(33,20,11,2,0,0,0,0,0,0)	68	222100300200001	
2377	6	7	60000	2	1152(35,24,9,2,0,0,0,0,0,0)	68	222100300200002	
2378	6	7	60000	2	192(33,21,9,3,0,0,0,0,0,0)	66	222200100100002	
2379	6	7	60000	2	384(34,23,8,3,0,0,0,0,0,0)	66	222200100100003	
2380	6	7	60000	2	576(34,22,10,2,0,0,0,0,0,0)	68	222200200200001	
2381	6	7	60000	2	2688(36,26,8,2,0,0,0,0,0,0)	68	222200200200002	
2382	6	7	60000	2	2496(37,28,7,2,0,0,0,0,0,0)	68	222200200200003	
2383	6	7	60000	2	1680(36,26,8,2,0,0,0,0,0,0)	68	222200300100003	
2384	6	7	60000	2	480(33,20,11,2,0,0,0,0,0,0)	68	222200300100001	
2385	6	7	60000	2	1632(35,24,9,2,0,0,0,0,0,0)	68	222200300100002	
2386	6	7	60000	2	48(33,20,11,2,0,0,0,0,0,0)	68	222200100300001	
2387	6	7	60000	2	192(35,24,9,2,0,0,0,0,0,0)	68	222200100300002	
2388	6	7	60000	2	192(36,26,8,2,0,0,0,0,0,0)	68	222200100300003	
2389	6	7	60000	2	384(35,24,9,2,0,0,0,0,0,0)	68	222300100200002	
2390	6	7	60000	2	576(36,26,8,2,0,0,0,0,0,0)	68	222300100200003	
2391	6	7	60000	2	960(35,24,9,2,0,0,0,0,0,0)	68	222300200100002	
2392	6	7	60000	2	1248(36,26,8,2,0,0,0,0,0,0)	68	222300200100003	
2393	6	7	60000	1	96(34,22,10,2,0,0,0,0,0,0)	68	211200300002003	
2394	6	7	60000	1	96(34,22,10,2,0,0,0,0,0,0)	68	211200300003002	
2395	6	7	60000	1	24(32,18,12,2,0,0,0,0,0,0)	68	211200200002002	
2396	6	7	60000	1	48(34,22,10,2,0,0,0,0,0,0)	68	211200200003003	
2397	6	7	60000	1	144(35,24,9,2,0,0,0,0,0,0)	68	211300300003002	
2398	6	7	60000	1	48(33,20,11,2,0,0,0,0,0,0)	68	211300200002002	
2399	6	7	60000	1	96(35,24,9,2,0,0,0,0,0,0)	68	211300200003003	
2400	6	7	60000	1	96(35,24,9,2,0,0,0,0,0,0)	68	211300300002003	
2401	6	7	60000	1	48(34,21,12,1,0,0,0,0,0,0)	70	231100200003003	
2402	6	7	60000	1	48(34,21,12,1,0,0,0,0,0,0)	70	231100300003002	
2403	6	7	60000	1	192(36,25,10,1,0,0,0,0,0,0)	70	231200200003003	
2404	6	7	60000	1	240(36,25,10,1,0,0,0,0,0,0)	70	231200300003002	
2405	6	7	60000	1	192(37,27,9,1,0,0,0,0,0,0)	70	231300200003003	
2406	6	7	60000	1	240(37,27,9,1,0,0,0,0,0,0)	70	231300300003002	
2407	6	7	60000	1	48(36,25,10,1,0,0,0,0,0,0)	70	213200300002003	
2408	6	7	60000	1	48(36,25,10,1,0,0,0,0,0,0)	70	213200300003002	
2409	6	7	60000	1	96(37,27,9,1,0,0,0,0,0,0)	70	213300300002003	
2410	6	7	60000	1	96(37,27,9,1,0,0,0,0,0,0)	70	213300300003002	
2411	6	7	60000	1	48(35,23,11,1,0,0,0,0,0,0)	70	222100300003002	
2412	6	7	60000	1	480(37,27,9,1,0,0,0,0,0,0)	70	222200300003002	
2413	6	7	60000	1	288(37,27,9,1,0,0,0,0,0,0)	70	222200300002003	
2414	6	7	60000	1	96(35,23,11,1,0,0,0,0,0,0)	70	222200200002002	
2415	6	7	60000	1	192(37,27,9,1,0,0,0,0,0,0)	70	222200200003003	
2416	6	7	60000	1	576(38,29,8,1,0,0,0,0,0,0)	70	222300300003002	
2417	6	7	60000	1	144(36,25,10,1,0,0,0,0,0,0)	70	222300200002002	
2418	6	7	60000	1	288(38,29,8,1,0,0,0,0,0,0)	70	222300200003003	
2419	6	7	60000	1	288(38,29,8,1,0,0,0,0,0,0)	70	222300300002003	
2420	6	7	60000	1	240(37,27,9,1,0,0,0,0,0,0)	70	312200300003003	
2421	6	7	60000	1	48(35,23,11,1,0,0,0,0,0,0)	70	312200200002003	
2422	6	7	60000	1	48(35,23,11,1,0,0,0,0,0,0)	70	312200200003002	
2423	6	7	60000	1	96(35,23,11,1,0,0,0,0,0,0)	70	312200300002002	
2424	6	7	60000	1	96(36,25,10,1,0,0,0,0,0,0)	70	312300200002003	
2425	6	7	60000	1	96(36,25,10,1,0,0,0,0,0,0)	70	312300200003002	
2426	6	7	60000	1	144(36,25,10,1,0,0,0,0,0,0)	70	312300300002002	
2427	6	7	60000	1	264(38,29,8,1,0,0,0,0,0,0)	70	312300300003003	
2428	6	7	60000	1	48(33,19,13,1,0,0,0,0,0,0)	70	321100300002002	
2429	6	7	60000	1	96(35,23,11,1,0,0,0,0,0,0)	70	321100300003003	
2430	6	7	60000	1	144(35,23,11,1,0,0,0,0,0,0)	70	321200200002003	
2431	6	7	60000	1	144(35,23,11,1,0,0,0,0,0,0)	70	321200200003002	
2432	6	7	60000	1	528(37,27,9,1,0,0,0,0,0,0)	70	321200300003003	
2433	6	7	60000	1	240(35,23,11,1,0,0,0,0,0,0)	70	321200300002002	
2434	6	7	60000	1	192(36,25,10,1,0,0,0,0,0,0)	70	321300200002003	
2435	6	7	60000	1	240(36,25,10,1,0,0,0,0,0,0)	70	321300300002002	
2436	6	7	60000	1	456(38,29,8,1,0,0,0,0,0,0)	70	321300300003003	
2437	6	7	60000	1	144(36,25,10,1,0,0,0,0,0,0)	70	321300200003002	
2438	6	7	60000	2	96(34,21,12,1,0,0,0,0,0,0)	70	132100030000203	
2439	6	7	60000	2	96(34,21,12,1,0,0,0,0,0,0)	70	312100030000302	
2440	6	7	60000	2	384(36,25,10,1,0,0,0,0,0,0)	70	132200030000203	
2441	6	7	60000	2	384(36,25,10,1,0,0,0,0,0,0)	70	312200030000302	
2442	6	7	60000	2	384(37,27,9,1,0,0,0,0,0,0)	70	132300030000203	
2443	6	7	60000	2	384(37,27,9,1,0,0,0,0,0,0)	70	312300030000302	
2444	6	7	60000	2	24(32,18,12,2,0,0,0,0,0,0)	68	112200020000202	
2445	6	7	60000	2	96(34,22,10,2,0,0,0,0,0,0)	68	112200030000203	
2446	6	7	60000	2	48(34,22,10,2,0,0,0,0,0,0)	68	112200030000302	
2447	6	7	60000	2	48(33,20,11,2,0,0,0,0,0,0)	68	112300020000202	
2448	6	7	60000	2	192(35,24,9,2,0,0,0,0,0,0)	68	112300030000203	
2449	6	7	60000	2	96(35,24,9,2,0,0,0,0,0,0)	68	112300030000302	
2450	6	7	60000	2	192(35,23,11,1,0,0,0,0,0,0)	70	213200020000203	
2451	6	7	60000	2	192(35,23,11,1,0,0,0,0,0,0)	70	213200030000202	
2452	6	7	60000	2	192(35,23,11,1,0,0,0,0,0,0)	70	123200030000202	
2453	6	7	60000	2	480(37,27,9,1,0,0,0,0,0,0)	70	213200030000303	
2454	6	7	60000	2	288(36,25,10,1,0,0,0,0,0,0)	70	213300020000203	
2455	6	7	60000	2	288(36,25,10,1,0,0,0,0,0,0)	70	213300030000202	
2456	6	7	60000	2	288(36,25,10,1,0,0,0,0,0,0)	70	123300030000202	
2457	6	7	60000	2	720(38,29,8,1,0,0,0,0,0,0)	70	213300030000303	
2458	6	7	60000	2	144(35,23,11,1,0,0,0,0,0,0)	70	222100030000302	
2459	6	7	60000	2	192(35,23,11,1,0,0,0,0,0,0)	70	222100030000203	
2460	6	7	60000	2	48(33,19,13,1,0,0,0,0,0,0)	70	222100020000202	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
2461	6	7	60000	2	624(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222200030000302
2462	6	7	60000	2	864(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222200030000203
2463	6	7	60000	2	240(35,23,11,	1, 0, 0, 0, 0, 0)	70	222200020000202
2464	6	7	60000	2	624(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222300030000302
2465	6	7	60000	2	864(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222300030000203
2466	6	7	60000	2	240(36,25,10,	1, 0, 0, 0, 0, 0)	70	222300020000202
2467	6	7	60000	1	24(30,14,14,	2, 0, 0, 0, 0, 0)	68	211200020200010
2468	6	7	60000	1	96(32,18,12,	2, 0, 0, 0, 0, 0)	68	211200020200020
2469	6	7	60000	1	96(33,20,11,	2, 0, 0, 0, 0, 0)	68	211200020200030
2470	6	7	60000	1	48(32,18,12,	2, 0, 0, 0, 0, 0)	68	211200030300010
2471	6	7	60000	1	240(34,22,10,	2, 0, 0, 0, 0, 0)	68	211200030300020
2472	6	7	60000	1	192(35,24, 9,	2, 0, 0, 0, 0, 0)	68	211200030300030
2473	6	7	60000	1	288(35,24, 9,	2, 0, 0, 0, 0, 0)	68	211300020300030
2474	6	7	60000	1	96(32,18,12,	2, 0, 0, 0, 0, 0)	68	211300020300010
2475	6	7	60000	1	336(34,22,10,	2, 0, 0, 0, 0, 0)	68	211300020300020
2476	6	7	60000	1	48(32,18,12,	2, 0, 0, 0, 0, 0)	68	211300030200010
2477	6	7	60000	1	240(34,22,10,	2, 0, 0, 0, 0, 0)	68	211300030200020
2478	6	7	60000	1	240(35,24, 9,	2, 0, 0, 0, 0, 0)	68	211300030200030
2479	6	7	60000	1	48(34,21,12,	1, 0, 0, 0, 0, 0)	70	231200030300010
2480	6	7	60000	1	240(36,25,10,	1, 0, 0, 0, 0, 0)	70	231200030300020
2481	6	7	60000	1	192(37,27, 9,	1, 0, 0, 0, 0, 0)	70	231200030300030
2482	6	7	60000	1	48(34,21,12,	1, 0, 0, 0, 0, 0)	70	231300030200010
2483	6	7	60000	1	240(36,25,10,	1, 0, 0, 0, 0, 0)	70	231300030200020
2484	6	7	60000	1	240(37,27, 9,	1, 0, 0, 0, 0, 0)	70	231300030200030
2485	6	7	60000	1	96(34,21,12,	1, 0, 0, 0, 0, 0)	70	213300020300010
2486	6	7	60000	1	336(36,25,10,	1, 0, 0, 0, 0, 0)	70	213300020300020
2487	6	7	60000	1	288(37,27, 9,	1, 0, 0, 0, 0, 0)	70	213300020300030
2488	6	7	60000	1	48(34,21,12,	1, 0, 0, 0, 0, 0)	70	213300030200010
2489	6	7	60000	1	240(36,25,10,	1, 0, 0, 0, 0, 0)	70	213300030200020
2490	6	7	60000	1	240(37,27, 9,	1, 0, 0, 0, 0, 0)	70	213300030200030
2491	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	222200020200010
2492	6	7	60000	1	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	222200020200020
2493	6	7	60000	1	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	222200020200030
2494	6	7	60000	1	96(35,23,11,	1, 0, 0, 0, 0, 0)	70	222200030300010
2495	6	7	60000	1	480(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222200030300020
2496	6	7	60000	1	384(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222200030300030
2497	6	7	60000	1	528(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222300020300030
2498	6	7	60000	1	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	222300020300010
2499	6	7	60000	1	624(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300020300020
2500	6	7	60000	1	144(35,23,11,	1, 0, 0, 0, 0, 0)	70	222300030200010
2501	6	7	60000	1	720(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300030200020
2502	6	7	60000	1	672(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222300030200030
2503	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	312200020300010
2504	6	7	60000	1	240(35,23,11,	1, 0, 0, 0, 0, 0)	70	312200020300020
2505	6	7	60000	1	240(36,25,10,	1, 0, 0, 0, 0, 0)	70	312200020300030
2506	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	312200030200010
2507	6	7	60000	1	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	312200030200020
2508	6	7	60000	1	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	312200030200030
2509	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	312300020200010
2510	6	7	60000	1	240(35,23,11,	1, 0, 0, 0, 0, 0)	70	312300020200020
2511	6	7	60000	1	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	312300020200030
2512	6	7	60000	1	216(35,23,11,	1, 0, 0, 0, 0, 0)	70	312300030300010
2513	6	7	60000	1	768(37,27, 9,	1, 0, 0, 0, 0, 0)	70	312300030300020
2514	6	7	60000	1	576(38,29, 8,	1, 0, 0, 0, 0, 0)	70	312300030300030
2515	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	321200020300010
2516	6	7	60000	1	240(35,23,11,	1, 0, 0, 0, 0, 0)	70	321200020300020
2517	6	7	60000	1	240(36,25,10,	1, 0, 0, 0, 0, 0)	70	321200020300030
2518	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	321200030200010
2519	6	7	60000	1	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	321200030200020
2520	6	7	60000	1	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	321200030200030
2521	6	7	60000	1	48(33,19,13,	1, 0, 0, 0, 0, 0)	70	321300020200010
2522	6	7	60000	1	240(35,23,11,	1, 0, 0, 0, 0, 0)	70	321300020200020
2523	6	7	60000	1	192(36,25,10,	1, 0, 0, 0, 0, 0)	70	321300020200030
2524	6	7	60000	1	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	321300030300010
2525	6	7	60000	1	744(37,27, 9,	1, 0, 0, 0, 0, 0)	70	321300030300020
2526	6	7	60000	1	528(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321300030300030
2527	6	6	60000	6	576(32,18,12,	2, 0, 0, 0, 0, 0)	68	211200002001000
2528	6	6	60000	6	1152(33,20,11,	2, 0, 0, 0, 0, 0)	68	112300002001000
2529	6	6	60000	6	576(33,20,11,	2, 0, 0, 0, 0, 0)	68	211300002001000
2530	6	6	60000	6	1152(34,22,10,	2, 0, 0, 0, 0, 0)	68	211300003001000
2531	6	6	60000	6	72(30,14,14,	2, 0, 0, 0, 0, 0)	68	112200001001000
2532	6	6	60000	6	144(31,16,13,	2, 0, 0, 0, 0, 0)	68	112300001001000
2533	6	6	60000	6	1080(34,22,10,	2, 0, 0, 0, 0, 0)	68	211200002002000
2534	6	6	60000	6	2160(35,24, 9,	2, 0, 0, 0, 0, 0)	68	112300002002000
2535	6	6	60000	6	2016(35,24, 9,	2, 0, 0, 0, 0, 0)	68	211300002002000
2536	6	6	60000	6	4032(36,26, 8,	2, 0, 0, 0, 0, 0)	68	211300003002000
2537	6	6	60000	6	1008(36,26, 8,	2, 0, 0, 0, 0, 0)	68	121300003002000
2538	6	6	60000	6	2016(37,28, 7,	2, 0, 0, 0, 0, 0)	68	211300003003000
2539	6	6	60000	6	2016(34,21,12,	1, 0, 0, 0, 0, 0)	70	321200002001000
2540	6	6	60000	6	2736(35,23,11,	1, 0, 0, 0, 0, 0)	70	123300002001000
2541	6	6	60000	6	1728(35,23,11,	1, 0, 0, 0, 0, 0)	70	321300002001000
2542	6	6	60000	6	2304(36,25,10,	1, 0, 0, 0, 0, 0)	70	321300003001000
2543	6	6	60000	6	576(32,17,14,	1, 0, 0, 0, 0, 0)	70	213200001001000
2544	6	6	60000	6	864(33,19,13,	1, 0, 0, 0, 0, 0)	70	213300001001000
2545	6	6	60000	6	7488(36,25,10,	1, 0, 0, 0, 0, 0)	70	321200002002000
2546	6	6	60000	6	10080(37,27, 9,	1, 0, 0, 0, 0, 0)	70	213300002002000
2547	6	6	60000	6	6336(37,27, 9,	1, 0, 0, 0, 0, 0)	70	321300002002000
2548	6	6	60000	6	8352(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321300003002000
2549	6	6	60000	6	2304(34,21,12,	1, 0, 0, 0, 0, 0)	70	312200002001000
2550	6	6	60000	6	3456(35,23,11,	1, 0, 0, 0, 0, 0)	70	213300002001000
2551	6	6	60000	6	7488(37,27, 9,	1, 0, 0, 0, 0, 0)	70	312300002002000
2552	6	6	60000	6	10080(38,29, 8,	1, 0, 0, 0, 0, 0)	70	312300003002000
2553	6	6	60000	6	5472(38,29, 8,	1, 0, 0, 0, 0, 0)	70	231300003002000
2554	6	6	60000	6	7056(39,31, 7,	1, 0, 0, 0, 0, 0)	70	321300003003000
2555	6	6	60000	6	2304(35,23,11,	1, 0, 0, 0, 0, 0)	70	312300002001000
2556	6	6	60000	6	3456(36,25,10,	1, 0, 0, 0, 0, 0)	70	312300003001000
2557	6	6	60000	6	6624(36,25,10,	1, 0, 0, 0, 0, 0)	70	222300002001000
2558	6	6	60000	6	720(34,21,12,	1, 0, 0, 0, 0, 0)	70	222300001001000
2559	6	6	60000	6	3168(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300003001000
2560	6	6	60000	6	720(33,19,13,	1, 0, 0, 0, 0, 0)	70	222200001001000
2561	6	6	60000	6	48(31,15,15,	1, 0, 0, 0, 0, 0)	70	222100001001000
2562	6	6	60000	6	3456(35,23,11,	1, 0, 0, 0, 0, 0)	70	222200002001000
2563	6	6	60000	6	14544(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222300002002000

GRAPH	N	L	C	SYMMETRY NUMMER	COUNT	CODE	TERM	GRAPH MATRIX
2564	6	6	60000	6	13248(39,31,7,1,0,0,0,0,0,0)	70	222300003002000	
2565	6	6	60000	6	5280(37,27,9,1,0,0,0,0,0,0)	70	222200002002000	
2566	6	6	60000	6	4032(40,33,6,1,0,0,0,0,0,0)	70	222300003003000	
2567	6	6	60000	2	96(34,22,10,2,0,0,0,0,0,0)	68	121200200002000	
2568	6	6	60000	2	192(35,24,9,2,0,0,0,0,0,0)	68	121200200003000	
2569	6	6	60000	2	384(35,24,9,2,0,0,0,0,0,0)	68	121300200002000	
2570	6	6	60000	2	768(36,26,8,2,0,0,0,0,0,0)	68	121300200003000	
2571	6	6	60000	2	288(36,26,8,2,0,0,0,0,0,0)	68	121300300002000	
2572	6	6	60000	2	576(37,28,7,2,0,0,0,0,0,0)	68	121300300003000	
2573	6	6	60000	2	192(36,25,10,1,0,0,0,0,0,0)	70	132200200002000	
2574	6	6	60000	2	288(37,27,9,1,0,0,0,0,0,0)	70	132200200003000	
2575	6	6	60000	2	768(37,27,9,1,0,0,0,0,0,0)	70	132300200002000	
2576	6	6	60000	2	1152(38,29,8,1,0,0,0,0,0,0)	70	132300200003000	
2577	6	6	60000	2	576(38,29,8,1,0,0,0,0,0,0)	70	132300300002000	
2578	6	6	60000	2	864(39,31,7,1,0,0,0,0,0,0)	70	132300300003000	
2579	6	6	60000	2	48(34,22,10,2,0,0,0,0,0,0)	68	112300300001000	
2580	6	6	60000	2	192(36,26,8,2,0,0,0,0,0,0)	68	112300300002000	
2581	6	6	60000	2	192(37,28,7,2,0,0,0,0,0,0)	68	112300300003000	
2582	6	6	60000	2	96(35,23,11,1,0,0,0,0,0,0)	70	123300200001000	
2583	6	6	60000	2	384(37,27,9,1,0,0,0,0,0,0)	70	123300200002000	
2584	6	6	60000	2	384(38,29,8,1,0,0,0,0,0,0)	70	123300200003000	
2585	6	6	60000	2	144(36,25,10,1,0,0,0,0,0,0)	70	123300300001000	
2586	6	6	60000	2	576(38,29,8,1,0,0,0,0,0,0)	70	123300300002000	
2587	6	6	60000	2	576(39,31,7,1,0,0,0,0,0,0)	70	123300300003000	
2588	6	6	60000	2	336(34,22,10,2,0,0,0,0,0,0)	68	211200200002000	
2589	6	6	60000	2	288(35,24,9,2,0,0,0,0,0,0)	68	211200200003000	
2590	6	6	60000	2	96(32,18,12,2,0,0,0,0,0,0)	68	211200200001000	
2591	6	6	60000	2	1248(35,24,9,2,0,0,0,0,0,0)	68	211300200002000	
2592	6	6	60000	2	1152(36,26,8,2,0,0,0,0,0,0)	68	211300200003000	
2593	6	6	60000	2	384(33,20,11,2,0,0,0,0,0,0)	68	211300200001000	
2594	6	6	60000	2	912(36,26,8,2,0,0,0,0,0,0)	68	211300300002000	
2595	6	6	60000	2	864(37,28,7,2,0,0,0,0,0,0)	68	211300300003000	
2596	6	6	60000	2	288(34,22,10,2,0,0,0,0,0,0)	68	211300300001000	
2597	6	6	60000	2	192(34,21,12,1,0,0,0,0,0,0)	70	231200100002000	
2598	6	6	60000	2	192(35,23,11,1,0,0,0,0,0,0)	70	231200100003000	
2599	6	6	60000	2	384(35,23,11,1,0,0,0,0,0,0)	70	231300100002000	
2600	6	6	60000	2	480(36,25,10,1,0,0,0,0,0,0)	70	231300100003000	
2601	6	6	60000	2	1056(36,25,10,1,0,0,0,0,0,0)	70	231200200002000	
2602	6	6	60000	2	1200(37,27,9,1,0,0,0,0,0,0)	70	231200200003000	
2603	6	6	60000	2	2688(37,27,9,1,0,0,0,0,0,0)	70	231300200002000	
2604	6	6	60000	2	3168(38,29,8,1,0,0,0,0,0,0)	70	231300200003000	
2605	6	6	60000	2	1440(38,29,8,1,0,0,0,0,0,0)	70	231300300002000	
2606	6	6	60000	2	1680(39,31,7,1,0,0,0,0,0,0)	70	231300300003000	
2607	6	6	60000	2	192(35,23,11,1,0,0,0,0,0,0)	70	213300200001000	
2608	6	6	60000	2	576(37,27,9,1,0,0,0,0,0,0)	70	213300200002000	
2609	6	6	60000	2	480(38,29,8,1,0,0,0,0,0,0)	70	213300200003000	
2610	6	6	60000	2	288(36,25,10,1,0,0,0,0,0,0)	70	213300300001000	
2611	6	6	60000	2	816(38,29,8,1,0,0,0,0,0,0)	70	213300300002000	
2612	6	6	60000	2	672(39,31,7,1,0,0,0,0,0,0)	70	213300300003000	
2613	6	6	60000	2	480(36,25,10,1,0,0,0,0,0,0)	70	222300100002000	
2614	6	6	60000	2	384(37,27,9,1,0,0,0,0,0,0)	70	222300100003000	
2615	6	6	60000	2	96(34,21,12,1,0,0,0,0,0,0)	70	222300100001000	
2616	6	6	60000	2	1728(37,27,9,1,0,0,0,0,0,0)	70	222200200002000	
2617	6	6	60000	2	1536(38,29,8,1,0,0,0,0,0,0)	70	222200200003000	
2618	6	6	60000	2	384(35,23,11,1,0,0,0,0,0,0)	70	222200200001000	
2619	6	6	60000	2	6336(38,29,8,1,0,0,0,0,0,0)	70	222300200002000	
2620	6	6	60000	2	5664(39,31,7,1,0,0,0,0,0,0)	70	222300200003000	
2621	6	6	60000	2	1440(36,25,10,1,0,0,0,0,0,0)	70	222300200001000	
2622	6	6	60000	2	4128(39,31,7,1,0,0,0,0,0,0)	70	222300300002000	
2623	6	6	60000	2	3648(40,33,6,1,0,0,0,0,0,0)	70	222300300003000	
2624	6	6	60000	2	960(37,27,9,1,0,0,0,0,0,0)	70	222300300001000	
2625	6	6	60000	2	576(36,25,10,1,0,0,0,0,0,0)	70	312200200002000	
2626	6	6	60000	2	480(37,27,9,1,0,0,0,0,0,0)	70	312200200003000	
2627	6	6	60000	2	192(34,21,12,1,0,0,0,0,0,0)	70	312200200001000	
2628	6	6	60000	2	2304(37,27,9,1,0,0,0,0,0,0)	70	312300200002000	
2629	6	6	60000	2	1632(38,29,8,1,0,0,0,0,0,0)	70	312300200003000	
2630	6	6	60000	2	768(35,23,11,1,0,0,0,0,0,0)	70	312300200001000	
2631	6	6	60000	2	1728(38,29,8,1,0,0,0,0,0,0)	70	312300300002000	
2632	6	6	60000	2	1104(39,31,7,1,0,0,0,0,0,0)	70	312300300003000	
2633	6	6	60000	2	576(36,25,10,1,0,0,0,0,0,0)	70	312300300001000	
2634	6	6	60000	2	384(35,23,11,1,0,0,0,0,0,0)	70	321200100003000	
2635	6	6	60000	2	96(32,17,14,1,0,0,0,0,0,0)	70	321200100001000	
2636	6	6	60000	2	384(34,21,12,1,0,0,0,0,0,0)	70	321200100002000	
2637	6	6	60000	2	576(36,25,10,1,0,0,0,0,0,0)	70	321300100003000	
2638	6	6	60000	2	192(33,19,13,1,0,0,0,0,0,0)	70	321300100001000	
2639	6	6	60000	2	672(35,23,11,1,0,0,0,0,0,0)	70	321300100002000	
2640	6	6	60000	2	1824(37,27,9,1,0,0,0,0,0,0)	70	321200200003000	
2641	6	6	60000	2	528(34,21,12,1,0,0,0,0,0,0)	70	321200200001000	
2642	6	6	60000	2	1824(36,25,10,1,0,0,0,0,0,0)	70	321200200002000	
2643	6	6	60000	2	3936(38,29,8,1,0,0,0,0,0,0)	70	321300200003000	
2644	6	6	60000	2	1344(35,23,11,1,0,0,0,0,0,0)	70	321300200001000	
2645	6	6	60000	2	4512(37,27,9,1,0,0,0,0,0,0)	70	321300200002000	
2646	6	6	60000	2	1824(39,31,7,1,0,0,0,0,0,0)	70	321300300003000	
2647	6	6	60000	2	720(36,25,10,1,0,0,0,0,0,0)	70	321300300001000	
2648	6	6	60000	2	2400(38,29,8,1,0,0,0,0,0,0)	70	321300300002000	
2649	6	6	60000	12	1152(36,26,8,2,0,0,0,0,0,0)	68	211300300002000	
2650	6	6	60000	12	1152(37,28,7,2,0,0,0,0,0,0)	68	211300300003000	
2651	6	6	60000	12	1152(38,29,8,1,0,0,0,0,0,0)	70	312300300002000	
2652	6	6	60000	12	1152(39,31,7,1,0,0,0,0,0,0)	70	312300300003000	
2653	6	6	60000	12	288(39,31,7,1,0,0,0,0,0,0)	70	213300300003000	
2654	6	6	60000	12	576(36,25,10,1,0,0,0,0,0,0)	70	321300300001000	
2655	6	6	60000	12	864(36,25,10,1,0,0,0,0,0,0)	70	321200200002000	
2656	6	6	60000	12	6336(37,27,9,1,0,0,0,0,0,0)	70	321300200002000	
2657	6	6	60000	12	12096(38,29,8,1,0,0,0,0,0,0)	70	321300300002000	
2658	6	6	60000	12	5760(39,31,7,1,0,0,0,0,0,0)	70	321300300003000	
2659	6	6	60000	12	1152(38,29,8,1,0,0,0,0,0,0)	70	222300200002000	
2660	6	6	60000	12	4320(39,31,7,1,0,0,0,0,0,0)	70	222300300002000	
2661	6	6	60000	12	2880(40,33,6,1,0,0,0,0,0,0)	70	222300300003000	
2662	6	6	60000	1	96(30,14,14,2,0,0,0,0,0,0)	68	121100000100200	
2663	6	6	60000	1	96(31,16,13,2,0,0,0,0,0,0)	68	121100000100300	
2664	6	6	60000	1	24(28,10,16,2,0,0,0,0,0,0)	68	121100000100100	
2665	6	6	60000	1	384(32,18,12,2,0,0,0,0,0,0)	68	121100000200200	
2666	6	6	60000	1	384(33,20,11,2,0,0,0,0,0,0)	68	121100000200300	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2667	6	6	60000	1	96(30,14,14,	2, 0, 0, 0, 0, 0)	68	121100000200100
2668	6	6	60000	1	384(33,20,11,	2, 0, 0, 0, 0, 0)	68	121100000300200
2669	6	6	60000	1	384(34,22,10,	2, 0, 0, 0, 0, 0)	68	121100000300300
2670	6	6	60000	1	96(31,16,13,	2, 0, 0, 0, 0, 0)	68	121100000300100
2671	6	6	60000	1	720(32,18,12,	2, 0, 0, 0, 0, 0)	68	121200000100200
2672	6	6	60000	1	672(33,20,11,	2, 0, 0, 0, 0, 0)	68	121200000100300
2673	6	6	60000	1	192(30,14,14,	2, 0, 0, 0, 0, 0)	68	121200000100100
2674	6	6	60000	1	2448(34,22,10,	2, 0, 0, 0, 0, 0)	68	121200000200200
2675	6	6	60000	1	2256(35,24, 9,	2, 0, 0, 0, 0, 0)	68	121200000200300
2676	6	6	60000	1	648(32,18,12,	2, 0, 0, 0, 0, 0)	68	121200000200100
2677	6	6	60000	1	1968(35,24, 9,	2, 0, 0, 0, 0, 0)	68	121200000300200
2678	6	6	60000	1	1872(36,26, 8,	2, 0, 0, 0, 0, 0)	68	121200000300300
2679	6	6	60000	1	528(33,20,11,	2, 0, 0, 0, 0, 0)	68	121200000300100
2680	6	6	60000	1	2160(36,26, 8,	2, 0, 0, 0, 0, 0)	68	121300000300200
2681	6	6	60000	1	2208(37,28, 7,	2, 0, 0, 0, 0, 0)	68	121300000300300
2682	6	6	60000	1	624(34,22,10,	2, 0, 0, 0, 0, 0)	68	121300000300100
2683	6	6	60000	1	1008(33,20,11,	2, 0, 0, 0, 0, 0)	68	121300000100200
2684	6	6	60000	1	1008(34,22,10,	2, 0, 0, 0, 0, 0)	68	121300000100300
2685	6	6	60000	1	288(31,16,13,	2, 0, 0, 0, 0, 0)	68	121300000100100
2686	6	6	60000	1	2832(35,24, 9,	2, 0, 0, 0, 0, 0)	68	121300000200200
2687	6	6	60000	1	2832(36,26, 8,	2, 0, 0, 0, 0, 0)	68	121300000200300
2688	6	6	60000	1	816(33,20,11,	2, 0, 0, 0, 0, 0)	68	121300000200100
2689	6	6	60000	1	168(32,17,14,	1, 0, 0, 0, 0, 0)	70	132100000100200
2690	6	6	60000	1	144(33,19,13,	1, 0, 0, 0, 0, 0)	70	132100000100300
2691	6	6	60000	1	48(30,13,16,	1, 0, 0, 0, 0, 0)	70	132100000100100
2692	6	6	60000	1	672(34,21,12,	1, 0, 0, 0, 0, 0)	70	132100000200200
2693	6	6	60000	1	576(35,23,11,	1, 0, 0, 0, 0, 0)	70	132100000200300
2694	6	6	60000	1	192(32,17,14,	1, 0, 0, 0, 0, 0)	70	132100000200100
2695	6	6	60000	1	672(35,23,11,	1, 0, 0, 0, 0, 0)	70	132100000300200
2696	6	6	60000	1	576(36,25,10,	1, 0, 0, 0, 0, 0)	70	132100000300300
2697	6	6	60000	1	192(33,19,13,	1, 0, 0, 0, 0, 0)	70	132100000300100
2698	6	6	60000	1	1248(34,21,12,	1, 0, 0, 0, 0, 0)	70	132200000100200
2699	6	6	60000	1	1056(35,23,11,	1, 0, 0, 0, 0, 0)	70	132200000100300
2700	6	6	60000	1	384(32,17,14,	1, 0, 0, 0, 0, 0)	70	132200000100100
2701	6	6	60000	1	4032(36,25,10,	1, 0, 0, 0, 0, 0)	70	132200000200200
2702	6	6	60000	1	3408(37,27, 9,	1, 0, 0, 0, 0, 0)	70	132200000200300
2703	6	6	60000	1	1248(34,21,12,	1, 0, 0, 0, 0, 0)	70	132200000200100
2704	6	6	60000	1	3408(37,27, 9,	1, 0, 0, 0, 0, 0)	70	132200000300200
2705	6	6	60000	1	2928(38,29, 8,	1, 0, 0, 0, 0, 0)	70	132200000300300
2706	6	6	60000	1	1056(35,23,11,	1, 0, 0, 0, 0, 0)	70	132200000300100
2707	6	6	60000	1	1872(35,23,11,	1, 0, 0, 0, 0, 0)	70	132300000100200
2708	6	6	60000	1	1368(36,25,10,	1, 0, 0, 0, 0, 0)	70	132300000100300
2709	6	6	60000	1	576(33,19,13,	1, 0, 0, 0, 0, 0)	70	132300000100100
2710	6	6	60000	1	5280(37,27, 9,	1, 0, 0, 0, 0, 0)	70	132300000200200
2711	6	6	60000	1	3960(38,29, 8,	1, 0, 0, 0, 0, 0)	70	132300000200300
2712	6	6	60000	1	1632(35,23,11,	1, 0, 0, 0, 0, 0)	70	132300000200100
2713	6	6	60000	1	3672(38,29, 8,	1, 0, 0, 0, 0, 0)	70	132300000300200
2714	6	6	60000	1	2736(39,31, 7,	1, 0, 0, 0, 0, 0)	70	132300000300300
2715	6	6	60000	1	1104(36,25,10,	1, 0, 0, 0, 0, 0)	70	132300000300100
2716	6	6	60000	1	192(32,18,12,	2, 0, 0, 0, 0, 0)	69	112200000100200
2717	6	6	60000	1	192(33,20,11,	2, 0, 0, 0, 0, 0)	68	112200000100300
2718	6	6	60000	1	48(30,14,14,	2, 0, 0, 0, 0, 0)	68	112200000100100
2719	6	6	60000	1	672(34,22,10,	2, 0, 0, 0, 0, 0)	68	112200000200200
2720	6	6	60000	1	672(35,24, 9,	2, 0, 0, 0, 0, 0)	68	112200000200300
2721	6	6	60000	1	168(32,18,12,	2, 0, 0, 0, 0, 0)	68	112200000200100
2722	6	6	60000	1	576(35,24, 9,	2, 0, 0, 0, 0, 0)	68	112200000300200
2723	6	6	60000	1	576(36,26, 8,	2, 0, 0, 0, 0, 0)	68	112200000300300
2724	6	6	60000	1	144(33,20,11,	2, 0, 0, 0, 0, 0)	68	112200000300100
2725	6	6	60000	1	1344(36,26, 8,	2, 0, 0, 0, 0, 0)	68	112300000300200
2726	6	6	60000	1	1344(37,28, 7,	2, 0, 0, 0, 0, 0)	68	112300000300300
2727	6	6	60000	1	336(34,22,10,	2, 0, 0, 0, 0, 0)	68	112300000300100
2728	6	6	60000	1	576(33,20,11,	2, 0, 0, 0, 0, 0)	68	112300000100200
2729	6	6	60000	1	576(34,22,10,	2, 0, 0, 0, 0, 0)	68	112300000100300
2730	6	6	60000	1	144(31,16,13,	2, 0, 0, 0, 0, 0)	68	112300000100100
2731	6	6	60000	1	1728(35,24, 9,	2, 0, 0, 0, 0, 0)	68	112300000200200
2732	6	6	60000	1	1728(36,26, 8,	2, 0, 0, 0, 0, 0)	68	112300000200300
2733	6	6	60000	1	432(33,20,11,	2, 0, 0, 0, 0, 0)	68	112300000200100
2734	6	6	60000	1	672(34,21,12,	1, 0, 0, 0, 0, 0)	70	123200000100200
2735	6	6	60000	1	576(35,23,11,	1, 0, 0, 0, 0, 0)	70	123200000100300
2736	6	6	60000	1	192(32,17,14,	1, 0, 0, 0, 0, 0)	70	123200000100100
2737	6	6	60000	1	2352(36,25,10,	1, 0, 0, 0, 0, 0)	70	123200000200200
2738	6	6	60000	1	1968(37,27, 9,	1, 0, 0, 0, 0, 0)	70	123200000200300
2739	6	6	60000	1	672(34,21,12,	1, 0, 0, 0, 0, 0)	70	123200000200100
2740	6	6	60000	1	1968(37,27, 9,	1, 0, 0, 0, 0, 0)	70	123200000300200
2741	6	6	60000	1	1680(38,29, 8,	1, 0, 0, 0, 0, 0)	70	123200000300300
2742	6	6	60000	1	576(35,23,11,	1, 0, 0, 0, 0, 0)	70	123200000300100
2743	6	6	60000	1	1368(35,23,11,	1, 0, 0, 0, 0, 0)	70	123300000100200
2744	6	6	60000	1	1152(36,25,10,	1, 0, 0, 0, 0, 0)	70	123300000100300
2745	6	6	60000	1	432(33,19,13,	1, 0, 0, 0, 0, 0)	70	123300000100100
2746	6	6	60000	1	3768(37,27, 9,	1, 0, 0, 0, 0, 0)	70	123300000200200
2747	6	6	60000	1	3168(38,29, 8,	1, 0, 0, 0, 0, 0)	70	123300000200300
2748	6	6	60000	1	1200(35,23,11,	1, 0, 0, 0, 0, 0)	70	123300000200100
2749	6	6	60000	1	2856(38,29, 8,	1, 0, 0, 0, 0, 0)	70	123300000300200
2750	6	6	60000	1	2448(39,31, 7,	1, 0, 0, 0, 0, 0)	70	123300000300300
2751	6	6	60000	1	912(36,25,10,	1, 0, 0, 0, 0, 0)	70	123300000300100
2752	6	6	60000	1	24(30,14,14,	2, 0, 0, 0, 0, 0)	68	211100000100200
2753	6	6	60000	1	48(31,16,13,	2, 0, 0, 0, 0, 0)	68	211100000100300
2754	6	6	60000	1	96(32,18,12,	2, 0, 0, 0, 0, 0)	68	211100000100100
2755	6	6	60000	1	192(33,20,11,	2, 0, 0, 0, 0, 0)	68	211100000200200
2756	6	6	60000	1	96(33,20,11,	2, 0, 0, 0, 0, 0)	68	211100000200300
2757	6	6	60000	1	192(34,22,10,	2, 0, 0, 0, 0, 0)	68	211100000200100
2758	6	6	60000	1	192(32,18,12,	2, 0, 0, 0, 0, 0)	68	211200000100200
2759	6	6	60000	1	384(33,20,11,	2, 0, 0, 0, 0, 0)	68	211200000100300
2760	6	6	60000	1	648(34,22,10,	2, 0, 0, 0, 0, 0)	68	211200000200200
2761	6	6	6000					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2770	6	6	60000	1	192133,19,13,	1, 0, 0, 0, 0, 0, 0	70	231100000100300
2771	6	6	60000	1	48130,13,16,	1, 0, 0, 0, 0, 0, 0	70	231100000100100
2772	6	6	60000	1	192132,17,14,	1, 0, 0, 0, 0, 0, 0	70	231100000100200
2773	6	6	60000	1	768135,23,11,	1, 0, 0, 0, 0, 0, 0	70	231100000200300
2774	6	6	60000	1	192132,17,14,	1, 0, 0, 0, 0, 0, 0	70	231100000200100
2775	6	6	60000	1	768134,21,12,	1, 0, 0, 0, 0, 0, 0	70	231100000200200
2776	6	6	60000	1	768136,25,10,	1, 0, 0, 0, 0, 0, 0	70	231100000300300
2777	6	6	60000	1	192133,19,13,	1, 0, 0, 0, 0, 0, 0	70	231100000300100
2778	6	6	60000	1	768135,23,11,	1, 0, 0, 0, 0, 0, 0	70	231100000300200
2779	6	6	60000	1	1248135,23,11,	1, 0, 0, 0, 0, 0, 0	70	231200000100300
2780	6	6	60000	1	336132,17,14,	1, 0, 0, 0, 0, 0, 0	70	231200000100100
2781	6	6	60000	1	1248134,21,12,	1, 0, 0, 0, 0, 0, 0	70	231200000100200
2782	6	6	60000	1	3936137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	231200000200300
2783	6	6	60000	1	1080134,21,12,	1, 0, 0, 0, 0, 0, 0	70	231200000200100
2784	6	6	60000	1	3984136,25,10,	1, 0, 0, 0, 0, 0, 0	70	231200000200200
2785	6	6	60000	1	3216138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	231200000300300
2786	6	6	60000	1	864135,23,11,	1, 0, 0, 0, 0, 0, 0	70	231200000300100
2787	6	6	60000	1	3168137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	231200000300200
2788	6	6	60000	1	1368136,25,10,	1, 0, 0, 0, 0, 0, 0	70	231300000100300
2789	6	6	60000	1	432133,19,13,	1, 0, 0, 0, 0, 0, 0	70	231300000100100
2790	6	6	60000	1	1584135,23,11,	1, 0, 0, 0, 0, 0, 0	70	231300000100200
2791	6	6	60000	1	3720138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	231300000200300
2792	6	6	60000	1	1152135,23,11,	1, 0, 0, 0, 0, 0, 0	70	231300000200100
2793	6	6	60000	1	4224137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	231300000200200
2794	6	6	60000	1	2640139,31, 7,	1, 0, 0, 0, 0, 0, 0	70	231300000300300
2795	6	6	60000	1	792136,25,10,	1, 0, 0, 0, 0, 0, 0	70	231300000300100
2796	6	6	60000	1	2976138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	231300000300200
2797	6	6	60000	1	384135,23,11,	1, 0, 0, 0, 0, 0, 0	70	213200000100300
2798	6	6	60000	1	96132,17,14,	1, 0, 0, 0, 0, 0, 0	70	213200000100100
2799	6	6	60000	1	384134,21,12,	1, 0, 0, 0, 0, 0, 0	70	213200000100200
2800	6	6	60000	1	1344137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	213200000200300
2801	6	6	60000	1	336134,21,12,	1, 0, 0, 0, 0, 0, 0	70	213200000200100
2802	6	6	60000	1	1344136,25,10,	1, 0, 0, 0, 0, 0, 0	70	213200000200200
2803	6	6	60000	1	1152138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	213200000300300
2804	6	6	60000	1	288135,23,11,	1, 0, 0, 0, 0, 0, 0	70	213200000300100
2805	6	6	60000	1	1152137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	213200000300200
2806	6	6	60000	1	864136,25,10,	1, 0, 0, 0, 0, 0, 0	70	213300000100300
2807	6	6	60000	1	216133,19,13,	1, 0, 0, 0, 0, 0, 0	70	213300000100100
2808	6	6	60000	1	864135,23,11,	1, 0, 0, 0, 0, 0, 0	70	213300000100200
2809	6	6	60000	1	2400138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	213300000200300
2810	6	6	60000	1	600135,23,11,	1, 0, 0, 0, 0, 0, 0	70	213300000200100
2811	6	6	60000	1	2400137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	213300000200200
2812	6	6	60000	1	1824139,31, 7,	1, 0, 0, 0, 0, 0, 0	70	213300000300300
2813	6	6	60000	1	456136,25,10,	1, 0, 0, 0, 0, 0, 0	70	213300000300100
2814	6	6	60000	1	1824138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	213300000300200
2815	6	6	60000	1	240134,21,12,	1, 0, 0, 0, 0, 0, 0	70	222100000100300
2816	6	6	60000	1	48131,15,15,	1, 0, 0, 0, 0, 0, 0	70	222100000100100
2817	6	6	60000	1	240133,19,13,	1, 0, 0, 0, 0, 0, 0	70	222100000100200
2818	6	6	60000	1	960136,25,10,	1, 0, 0, 0, 0, 0, 0	70	222100000200300
2819	6	6	60000	1	192133,19,13,	1, 0, 0, 0, 0, 0, 0	70	222100000200100
2820	6	6	60000	1	960135,23,11,	1, 0, 0, 0, 0, 0, 0	70	222100000200200
2821	6	6	60000	1	960137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	222100000300300
2822	6	6	60000	1	192134,21,12,	1, 0, 0, 0, 0, 0, 0	70	222100000300100
2823	6	6	60000	1	960136,25,10,	1, 0, 0, 0, 0, 0, 0	70	222100000300200
2824	6	6	60000	1	2208136,25,10,	1, 0, 0, 0, 0, 0, 0	70	222200000100300
2825	6	6	60000	1	480133,19,13,	1, 0, 0, 0, 0, 0, 0	70	222200000100100
2826	6	6	60000	1	2304135,23,11,	1, 0, 0, 0, 0, 0, 0	70	222200000100200
2827	6	6	60000	1	7200138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	222200000200300
2828	6	6	60000	1	1584135,23,11,	1, 0, 0, 0, 0, 0, 0	70	222200000200100
2829	6	6	60000	1	7632137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	222200000200200
2830	6	6	60000	1	5760139,31, 7,	1, 0, 0, 0, 0, 0, 0	70	222200000300300
2831	6	6	60000	1	1248136,25,10,	1, 0, 0, 0, 0, 0, 0	70	222200000300100
2832	6	6	60000	1	5952138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	222200000300200
2833	6	6	60000	1	6384140,33, 6,	1, 0, 0, 0, 0, 0, 0	70	222300000300300
2834	6	6	60000	1	1440137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	222300000300100
2835	6	6	60000	1	6528139,31, 7,	1, 0, 0, 0, 0, 0, 0	70	222300000300200
2836	6	6	60000	1	3168137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	222300000100300
2837	6	6	60000	1	720134,21,12,	1, 0, 0, 0, 0, 0, 0	70	222300000100100
2838	6	6	60000	1	3312136,25,10,	1, 0, 0, 0, 0, 0, 0	70	222300000100200
2839	6	6	60000	1	8208139,31, 7,	1, 0, 0, 0, 0, 0, 0	70	222300000200300
2840	6	6	60000	1	1872136,25,10,	1, 0, 0, 0, 0, 0, 0	70	222300000200100
2841	6	6	60000	1	8544138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	222300000200200
2842	6	6	60000	1	48132,17,14,	1, 0, 0, 0, 0, 0, 0	70	312100000100200
2843	6	6	60000	1	72133,19,13,	1, 0, 0, 0, 0, 0, 0	70	312100000100100
2844	6	6	60000	1	192134,21,12,	1, 0, 0, 0, 0, 0, 0	70	312100000200200
2845	6	6	60000	1	288135,23,11,	1, 0, 0, 0, 0, 0, 0	70	312100000200100
2846	6	6	60000	1	192135,23,11,	1, 0, 0, 0, 0, 0, 0	70	312100000300200
2847	6	6	60000	1	288136,25,10,	1, 0, 0, 0, 0, 0, 0	70	312100000300100
2848	6	6	60000	1	384134,21,12,	1, 0, 0, 0, 0, 0, 0	70	312200000100200
2849	6	6	60000	1	576135,23,11,	1, 0, 0, 0, 0, 0, 0	70	312200000100100
2850	6	6	60000	1	1248136,25,10,	1, 0, 0, 0, 0, 0, 0	70	312200000200200
2851	6	6	60000	1	1872137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	312200000200100
2852	6	6	60000	1	1056137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	312200000300200
2853	6	6	60000	1	1584138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	312200000300100
2854	6	6	60000	1	576135,23,11,	1, 0, 0, 0, 0, 0, 0	70	312300000100200
2855	6	6	60000	1	864136,25,10,	1, 0, 0, 0, 0, 0, 0	70	312300000100100
2856	6	6	60000	1	1632137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	312300000200200
2857	6	6	60000	1	2448138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	312300000200100
2858	6	6	60000	1	1104138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	312300000300200
2859	6	6	60000	1	1656139,31, 7,	1, 0, 0, 0, 0, 0, 0	70	312300000300100
2860	6	6	60000	1	96132,17,14,	1, 0, 0, 0, 0, 0, 0	70	321100000100200
2861	6	6	60000	1	144133,19,13,	1, 0, 0, 0, 0, 0, 0	70	321100000100100
2862	6	6	60000	1	384134,21,12,	1, 0, 0, 0, 0, 0, 0	70	321100000200200
2863	6	6	60000	1	576135,23,11,	1, 0, 0, 0, 0, 0, 0	70	321100000200100
2864	6	6	60000	1	384135,23,11,	1, 0, 0, 0, 0, 0, 0	70	321100000300200
2865	6	6	60000	1	576136,25,10,	1, 0, 0, 0, 0, 0, 0	70	321100000300100
2866	6	6	60000	1	672134,21,12,	1, 0, 0, 0, 0, 0, 0	70	321200000100200
2867	6	6	60000	1	912135,23,11,	1, 0, 0, 0, 0, 0, 0	70	321200000100100
2868	6	6	60000	1	2160136,25,10,	1, 0, 0, 0, 0, 0, 0	70	321200000200200
2869	6	6	60000	1	2904137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	321200000200100
2870	6	6	60000	1	1680137,27, 9,	1, 0, 0, 0, 0, 0, 0	70	321200000300200
2871	6	6	60000	1	2352138,29, 8,	1, 0, 0, 0, 0, 0, 0	70	321200000300100
2872	6	6	60000	1	864135,23,11,	1, 0, 0, 0, 0, 0, 0	70	321300000100200

GRAPH	N	L	C	SYMMETRY NUMBR	COUNT	CODE	TERM	GRAPH MATRIX
2873	6	6	60000	1	1152(36,25,10,	1, 0, 0, 0, 0, 0)	70	321300000100300
2874	6	6	60000	1	2256(37,27, 9,	1, 0, 0, 0, 0, 0)	70	321300000200200
2875	6	6	60000	1	3024(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321300000200300
2876	6	6	60000	1	1536(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321300000300200
2877	6	6	60000	1	2088(39,31, 7,	1, 0, 0, 0, 0, 0)	70	321300000300300
2878	6	6	60000	4	192(32,18,12,	2, 0, 0, 0, 0, 0)	68	211100000200020
2879	6	6	60000	4	768(33,20,11,	2, 0, 0, 0, 0, 0)	68	211100000300020
2880	6	6	60000	4	576(34,22,10,	2, 0, 0, 0, 0, 0)	68	211100000300030
2881	6	6	60000	4	672(32,18,12,	2, 0, 0, 0, 0, 0)	68	211200000200010
2882	6	6	60000	4	1344(33,20,11,	2, 0, 0, 0, 0, 0)	68	211200000300010
2883	6	6	60000	4	3840(34,22,10,	2, 0, 0, 0, 0, 0)	68	211200000200020
2884	6	6	60000	4	9408(35,24, 9,	2, 0, 0, 0, 0, 0)	68	211200000300020
2885	6	6	60000	4	4896(36,26, 8,	2, 0, 0, 0, 0, 0)	68	211200000300030
2886	6	6	60000	4	3072(34,22,10,	2, 0, 0, 0, 0, 0)	68	211300000300010
2887	6	6	60000	4	14976(36,26, 8,	2, 0, 0, 0, 0, 0)	68	211300000300020
2888	6	6	60000	4	6912(37,28, 7,	2, 0, 0, 0, 0, 0)	68	211300000300030
2889	6	6	60000	4	2112(33,20,11,	2, 0, 0, 0, 0, 0)	68	211300000200010
2890	6	6	60000	4	7104(35,24, 9,	2, 0, 0, 0, 0, 0)	68	211300000200020
2891	6	6	60000	4	192(34,21,12,	1, 0, 0, 0, 0, 0)	70	312100000200020
2892	6	6	60000	4	768(35,23,11,	1, 0, 0, 0, 0, 0)	70	312100000300020
2893	6	6	60000	4	576(36,25,10,	1, 0, 0, 0, 0, 0)	70	312100000300030
2894	6	6	60000	4	576(34,21,12,	1, 0, 0, 0, 0, 0)	70	312200000200010
2895	6	6	60000	4	1344(35,23,11,	1, 0, 0, 0, 0, 0)	70	312200000300010
2896	6	6	60000	4	3456(36,25,10,	1, 0, 0, 0, 0, 0)	70	312200000200020
2897	6	6	60000	4	9024(37,27, 9,	1, 0, 0, 0, 0, 0)	70	312200000300020
2898	6	6	60000	4	4800(38,29, 8,	1, 0, 0, 0, 0, 0)	70	312200000300030
2899	6	6	60000	4	2112(35,23,11,	1, 0, 0, 0, 0, 0)	70	312300000200010
2900	6	6	60000	4	2592(36,25,10,	1, 0, 0, 0, 0, 0)	70	312300000300010
2901	6	6	60000	4	7104(37,27, 9,	1, 0, 0, 0, 0, 0)	70	312300000200020
2902	6	6	60000	4	13248(38,29, 8,	1, 0, 0, 0, 0, 0)	70	312300000300020
2903	6	6	60000	4	5472(39,31, 7,	1, 0, 0, 0, 0, 0)	70	312300000300030
2904	6	6	60000	4	96(32,18,12,	2, 0, 0, 0, 0, 0)	68	112200000200010
2905	6	6	60000	4	192(33,20,11,	2, 0, 0, 0, 0, 0)	68	112200000300010
2906	6	6	60000	4	528(34,22,10,	2, 0, 0, 0, 0, 0)	68	112200000200020
2907	6	6	60000	4	1344(35,24, 9,	2, 0, 0, 0, 0, 0)	68	112200000300020
2908	6	6	60000	4	720(36,26, 8,	2, 0, 0, 0, 0, 0)	68	112200000300030
2909	6	6	60000	4	864(34,22,10,	2, 0, 0, 0, 0, 0)	68	112300000300010
2910	6	6	60000	4	4320(36,26, 8,	2, 0, 0, 0, 0, 0)	68	112300000300020
2911	6	6	60000	4	2016(37,28, 7,	2, 0, 0, 0, 0, 0)	68	112300000300030
2912	6	6	60000	4	576(33,20,11,	2, 0, 0, 0, 0, 0)	68	112300000200010
2913	6	6	60000	4	2016(35,24, 9,	2, 0, 0, 0, 0, 0)	68	112300000200020
2914	6	6	60000	4	384(34,21,12,	1, 0, 0, 0, 0, 0)	70	213200000200010
2915	6	6	60000	4	768(35,23,11,	1, 0, 0, 0, 0, 0)	70	213200000300010
2916	6	6	60000	4	2112(36,25,10,	1, 0, 0, 0, 0, 0)	70	213200000200020
2917	6	6	60000	4	5376(37,27, 9,	1, 0, 0, 0, 0, 0)	70	213200000300020
2918	6	6	60000	4	2880(38,29, 8,	1, 0, 0, 0, 0, 0)	70	213200000300030
2919	6	6	60000	4	1536(35,23,11,	1, 0, 0, 0, 0, 0)	70	213300000200010
2920	6	6	60000	4	2208(36,25,10,	1, 0, 0, 0, 0, 0)	70	213300000300010
2921	6	6	60000	4	5088(37,27, 9,	1, 0, 0, 0, 0, 0)	70	213300000200020
2922	6	6	60000	4	10656(38,29, 8,	1, 0, 0, 0, 0, 0)	70	213300000300020
2923	6	6	60000	4	4896(39,31, 7,	1, 0, 0, 0, 0, 0)	70	213300000300030
2924	6	6	60000	4	384(34,21,12,	1, 0, 0, 0, 0, 0)	70	321100000200020
2925	6	6	60000	4	1536(35,23,11,	1, 0, 0, 0, 0, 0)	70	321100000300020
2926	6	6	60000	4	1152(36,25,10,	1, 0, 0, 0, 0, 0)	70	321100000300030
2927	6	6	60000	4	960(34,21,12,	1, 0, 0, 0, 0, 0)	70	321200000200010
2928	6	6	60000	4	2112(35,23,11,	1, 0, 0, 0, 0, 0)	70	321200000300010
2929	6	6	60000	4	5856(36,25,10,	1, 0, 0, 0, 0, 0)	70	321200000200020
2930	6	6	60000	4	14400(37,27, 9,	1, 0, 0, 0, 0, 0)	70	321200000300020
2931	6	6	60000	4	7392(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321200000300030
2932	6	6	60000	4	2480(35,23,11,	1, 0, 0, 0, 0, 0)	70	321300000200010
2933	6	6	60000	4	3648(36,25,10,	1, 0, 0, 0, 0, 0)	70	321300000300010
2934	6	6	60000	4	9216(37,27, 9,	1, 0, 0, 0, 0, 0)	70	321300000200020
2935	6	6	60000	4	17568(38,29, 8,	1, 0, 0, 0, 0, 0)	70	321300000300020
2936	6	6	60000	4	7488(39,31, 7,	1, 0, 0, 0, 0, 0)	70	321300000300030
2937	6	6	60000	4	192(35,23,11,	1, 0, 0, 0, 0, 0)	70	222100000200020
2938	6	6	60000	4	768(36,25,10,	1, 0, 0, 0, 0, 0)	70	222100000300020
2939	6	6	60000	4	576(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222100000300030
2940	6	6	60000	4	768(35,23,11,	1, 0, 0, 0, 0, 0)	70	222200000200010
2941	6	6	60000	4	1536(36,25,10,	1, 0, 0, 0, 0, 0)	70	222200000300010
2942	6	6	60000	4	4512(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222200000200020
2943	6	6	60000	4	10752(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222200000300020
2944	6	6	60000	4	5472(39,31, 7,	1, 0, 0, 0, 0, 0)	70	222200000300030
2945	6	6	60000	4	3360(37,27, 9,	1, 0, 0, 0, 0, 0)	70	222300000300010
2946	6	6	60000	4	15552(39,31, 7,	1, 0, 0, 0, 0, 0)	70	222300000300020
2947	6	6	60000	4	7296(40,33, 6,	1, 0, 0, 0, 0, 0)	70	222300000300030
2948	6	6	60000	4	2304(36,25,10,	1, 0, 0, 0, 0, 0)	70	222300000200010
2949	6	6	60000	4	7200(38,29, 8,	1, 0, 0, 0, 0, 0)	70	222300000200020
2950	6	6	60000	2	384(32,18,12,	2, 0, 0, 0, 0, 0)	68	2112002000000001
2951	6	6	60000	2	1104(34,22,10,	2, 0, 0, 0, 0, 0)	68	2112002000000002
2952	6	6	60000	2	672(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2112002000000003
2953	6	6	60000	2	2112(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2112003000000003
2954	6	6	60000	2	1152(33,20,11,	2, 0, 0, 0, 0, 0)	68	2112003000000001
2955	6	6	60000	2	2880(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2112003000000002
2956	6	6	60000	2	768(33,20,11,	2, 0, 0, 0, 0, 0)	68	2113002000000001
2957	6	6	60000	2	2208(35,24, 9,	2, 0, 0, 0, 0, 0)	68	2113002000000002
2958	6	6	60000	2	1728(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2113002000000003
2959	6	6	60000	2	1728(34,22,10,	2, 0, 0, 0, 0, 0)	68	2113003000000001
2960	6	6	60000	2	4128(36,26, 8,	2, 0, 0, 0, 0, 0)	68	2113003000000002
2961	6	6	60000	2	2496(37,28, 7,	2, 0, 0, 0, 0, 0)	68	2113003000000003
2962	6	6	60000	2	384(34,21,12,	1, 0, 0, 0, 0, 0)	70	3122002000000001
2963	6	6	60000	2	1056(36,25,10,	1, 0, 0, 0, 0, 0)	70	3122002000000002
2964	6	6	60000	2	672(37,27, 9,	1, 0, 0, 0, 0, 0)	70	3122002000000003
2965	6	6	60000	2	1152(35,23,11,	1, 0, 0, 0, 0, 0)	70	3122003000000001
2966	6	6	60000	2	2880(37,27, 9,	1, 0, 0, 0, 0, 0)	70	3122003000000002
2967								

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2976	6	6	60000	2	192(37,28, 7, 2, 0, 0, 0, 0, 0)	68	1123003000000003	
2977	6	6	60000	2	672(37,27, 9, 1, 0, 0, 0, 0, 0)	70	2137003000000002	
2978	6	6	60000	2	288(35,23,11, 1, 0, 0, 0, 0, 0)	70	2137003000000001	
2979	6	6	60000	2	480(38,29, 8, 1, 0, 0, 0, 0, 0)	70	2137003000000003	
2980	6	6	60000	2	192(35,23,11, 1, 0, 0, 0, 0, 0)	70	2133002000000001	
2981	6	6	60000	2	576(37,27, 9, 1, 0, 0, 0, 0, 0)	70	2133002000000002	
2982	6	6	60000	2	480(38,29, 8, 1, 0, 0, 0, 0, 0)	70	2133002000000003	
2983	6	6	60000	2	864(36,25,10, 1, 0, 0, 0, 0, 0)	70	2133003000000001	
2984	6	6	60000	2	2016(38,29, 8, 1, 0, 0, 0, 0, 0)	70	2133003000000002	
2985	6	6	60000	2	1152(39,31, 7, 1, 0, 0, 0, 0, 0)	70	2133003000000003	
2986	6	6	60000	2	192(32,17,14, 1, 0, 0, 0, 0, 0)	70	3211002000000001	
2987	6	6	60000	2	576(34,21,12, 1, 0, 0, 0, 0, 0)	70	3211002000000002	
2988	6	6	60000	2	384(35,23,11, 1, 0, 0, 0, 0, 0)	70	3211002000000003	
2989	6	6	60000	2	576(33,19,13, 1, 0, 0, 0, 0, 0)	70	3211003000000001	
2990	6	6	60000	2	1440(35,23,11, 1, 0, 0, 0, 0, 0)	70	3211003000000002	
2991	6	6	60000	2	960(36,25,10, 1, 0, 0, 0, 0, 0)	70	3211003000000003	
2992	6	6	60000	2	96(32,17,14, 1, 0, 0, 0, 0, 0)	70	3212001000000001	
2993	6	6	60000	2	384(34,21,12, 1, 0, 0, 0, 0, 0)	70	3212001000000002	
2994	6	6	60000	2	384(35,23,11, 1, 0, 0, 0, 0, 0)	70	3212001000000003	
2995	6	6	60000	2	2112(34,21,12, 1, 0, 0, 0, 0, 0)	70	3212002000000001	
2996	6	6	60000	2	6336(36,25,10, 1, 0, 0, 0, 0, 0)	70	3212002000000002	
2997	6	6	60000	2	4512(37,27, 9, 1, 0, 0, 0, 0, 0)	70	3212002000000003	
2998	6	6	60000	2	4032(35,23,11, 1, 0, 0, 0, 0, 0)	70	3212003000000001	
2999	6	6	60000	2	9696(37,27, 9, 1, 0, 0, 0, 0, 0)	70	3212003000000002	
3000	6	6	60000	2	6432(38,29, 8, 1, 0, 0, 0, 0, 0)	70	3212003000000003	
3001	6	6	60000	2	192(33,19,13, 1, 0, 0, 0, 0, 0)	70	3213001000000001	
3002	6	6	60000	2	768(35,23,11, 1, 0, 0, 0, 0, 0)	70	3213001000000002	
3003	6	6	60000	2	768(36,25,10, 1, 0, 0, 0, 0, 0)	70	3213001000000003	
3004	6	6	60000	2	2688(35,23,11, 1, 0, 0, 0, 0, 0)	70	3213002000000001	
3005	6	6	60000	2	7776(37,27, 9, 1, 0, 0, 0, 0, 0)	70	3213002000000002	
3006	6	6	60000	2	5952(38,29, 8, 1, 0, 0, 0, 0, 0)	70	3213002000000003	
3007	6	6	60000	2	4320(36,25,10, 1, 0, 0, 0, 0, 0)	70	3213003000000001	
3008	6	6	60000	2	10176(38,29, 8, 1, 0, 0, 0, 0, 0)	70	3213003000000002	
3009	6	6	60000	2	5808(39,31, 7, 1, 0, 0, 0, 0, 0)	70	3213003000000003	
3010	6	6	60000	2	144(34,21,12, 1, 0, 0, 0, 0, 0)	70	2221003000000001	
3011	6	6	60000	2	336(36,25,10, 1, 0, 0, 0, 0, 0)	70	2221003000000002	
3012	6	6	60000	2	288(37,27, 9, 1, 0, 0, 0, 0, 0)	70	2221003000000003	
3013	6	6	60000	2	768(35,23,11, 1, 0, 0, 0, 0, 0)	70	2222002000000001	
3014	6	6	60000	2	2304(37,27, 9, 1, 0, 0, 0, 0, 0)	70	2222002000000002	
3015	6	6	60000	2	1536(38,29, 8, 1, 0, 0, 0, 0, 0)	70	2222002000000003	
3016	6	6	60000	2	2160(36,25,10, 1, 0, 0, 0, 0, 0)	70	2222003000000001	
3017	6	6	60000	2	4944(38,29, 8, 1, 0, 0, 0, 0, 0)	70	2222003000000002	
3018	6	6	60000	2	3696(39,31, 7, 1, 0, 0, 0, 0, 0)	70	2222003000000003	
3019	6	6	60000	2	1440(36,25,10, 1, 0, 0, 0, 0, 0)	70	2223002000000001	
3020	6	6	60000	2	4176(38,29, 8, 1, 0, 0, 0, 0, 0)	70	2223002000000002	
3021	6	6	60000	2	3168(39,31, 7, 1, 0, 0, 0, 0, 0)	70	2223002000000003	
3022	6	6	60000	2	2880(37,27, 9, 1, 0, 0, 0, 0, 0)	70	2223003000000001	
3023	6	6	60000	2	6528(39,31, 7, 1, 0, 0, 0, 0, 0)	70	2223003000000002	
3024	6	6	60000	2	4128(40,33, 6, 1, 0, 0, 0, 0, 0)	70	2223003000000003	
3025	6	6	60000	2	48(34,21,12, 1, 0, 0, 0, 0, 0)	70	2223001000000001	
3026	6	6	60000	2	192(36,25,10, 1, 0, 0, 0, 0, 0)	70	2223001000000002	
3027	6	6	60000	2	192(37,27, 9, 1, 0, 0, 0, 0, 0)	70	2223001000000003	
3028	6	6	60000	2	48(28,10,16, 2, 0, 0, 0, 0, 0)	68	2111000001000001	
3029	6	6	60000	2	192(30,14,14, 2, 0, 0, 0, 0, 0)	68	2111000001000002	
3030	6	6	60000	2	192(31,16,13, 2, 0, 0, 0, 0, 0)	68	2111000001000003	
3031	6	6	60000	2	1344(32,18,12, 2, 0, 0, 0, 0, 0)	68	2111000002000001	
3032	6	6	60000	2	1152(33,20,11, 2, 0, 0, 0, 0, 0)	68	2111000002000003	
3033	6	6	60000	2	384(30,14,14, 2, 0, 0, 0, 0, 0)	68	2111000002000001	
3034	6	6	60000	2	1728(33,20,11, 2, 0, 0, 0, 0, 0)	68	2111000003000002	
3035	6	6	60000	2	1344(34,22,10, 2, 0, 0, 0, 0, 0)	68	2111000003000003	
3036	6	6	60000	2	576(31,16,13, 2, 0, 0, 0, 0, 0)	68	2111000003000001	
3037	6	6	60000	2	1536(32,18,12, 2, 0, 0, 0, 0, 0)	68	2112000001000002	
3038	6	6	60000	2	1536(33,20,11, 2, 0, 0, 0, 0, 0)	68	2112000001000003	
3039	6	6	60000	2	384(30,14,14, 2, 0, 0, 0, 0, 0)	68	2112000001000001	
3040	6	6	60000	2	8736(34,22,10, 2, 0, 0, 0, 0, 0)	68	2112000002000002	
3041	6	6	60000	2	7008(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2112000002000003	
3042	6	6	60000	2	2592(32,18,12, 2, 0, 0, 0, 0, 0)	68	2112000002000001	
3043	6	6	60000	2	8736(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2112000003000002	
3044	6	6	60000	2	6624(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2112000003000003	
3045	6	6	60000	2	3168(33,20,11, 2, 0, 0, 0, 0, 0)	68	2112000003000001	
3046	6	6	60000	2	3744(34,22,10, 2, 0, 0, 0, 0, 0)	68	2113000003000001	
3047	6	6	60000	2	10176(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2113000003000002	
3048	6	6	60000	2	6720(37,28, 7, 2, 0, 0, 0, 0, 0)	68	2113000003000003	
3049	6	6	60000	2	2304(33,20,11, 2, 0, 0, 0, 0, 0)	68	2113000001000002	
3050	6	6	60000	2	2304(34,22,10, 2, 0, 0, 0, 0, 0)	68	2113000001000003	
3051	6	6	60000	2	576(31,16,13, 2, 0, 0, 0, 0, 0)	68	2113000001000001	
3052	6	6	60000	2	3264(33,20,11, 2, 0, 0, 0, 0, 0)	68	2113000002000001	
3053	6	6	60000	2	10272(35,24, 9, 2, 0, 0, 0, 0, 0)	68	2113000002000002	
3054	6	6	60000	2	8640(36,26, 8, 2, 0, 0, 0, 0, 0)	68	2113000002000003	
3055	6	6	60000	2	48(30,13,16, 1, 0, 0, 0, 0, 0)	70	3121000001000001	
3056	6	6	60000	2	192(32,17,14, 1, 0, 0, 0, 0, 0)	70	3121000001000002	
3057	6	6	60000	2	192(33,19,13, 1, 0, 0, 0, 0, 0)	70	3121000001000003	
3058	6	6	60000	2	1344(34,21,12, 1, 0, 0, 0, 0, 0)	70	3121000002000002	
3059	6	6	60000	2	1152(35,23,11, 1, 0, 0, 0, 0, 0)	70	3121000002000003	
3060	6	6	60000	2	384(32,17,14, 1, 0, 0, 0, 0, 0)	70	3121000002000001	
3061	6	6	60000	2	1728(35,23,11, 1, 0, 0, 0, 0, 0)	70	3121000003000002	
3062	6	6	60000	2	1344(36,25,10, 1, 0, 0, 0, 0, 0)	70	3121000003000003	
3063	6	6	60000	2	576(33,19,13, 1, 0, 0, 0, 0, 0)	70	3121000003000001	
3064	6	6	60000	2	1536(34,21,12, 1, 0, 0, 0, 0, 0)	70	3122000001000002	
3065	6	6	60000	2	1536(35,23,11, 1, 0, 0, 0, 0, 0)	70	3122000001000003	
3066	6	6	60000	2	384(32,17,14, 1, 0, 0, 0, 0, 0)	70	3122000001000001	
3067	6	6	60000	2	8352(36,25,10, 1, 0, 0, 0, 0, 0)	70	3122000002000002	
3068	6	6	60000	2	6816(37,27, 9, 1, 0, 0, 0, 0, 0)	70	3122000002000003	
3069	6	6	60000	2	2496(34,21,12, 1, 0, 0, 0, 0, 0)	70	3122000002000001	
3070	6	6	60000	2	8736(37,27, 9, 1, 0, 0, 0, 0, 0)	70	3122000003000002	
3071	6	6	60000	2	6720(38,29, 8, 1, 0, 0, 0, 0, 0)	70	3122000003000003	
3072	6	6	60000	2	3168(35,23,11, 1, 0, 0, 0, 0, 0)	70	3122000003000001	
3073	6	6	60000	2	2304(35,23,11, 1, 0, 0, 0, 0, 0)	70	3123000000000002	
3074	6	6	60000	2	2304(36,25,10, 1, 0,			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
3079	6	6	60000	2	9168(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	312300000300002	
3080	6	6	60000	2	6048(39,31, 7, 1, 0, 0, 0, 0, 0, 0)	70	312300000300003	
3081	6	6	60000	2	3312(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	312300000300001	
3082	6	6	60000	2	48(30,14,14, 2, 0, 0, 0, 0, 0, 0)	68	112200000100001	
3083	6	6	60000	2	192(32,18,12, 2, 0, 0, 0, 0, 0, 0)	68	112200000100002	
3084	6	6	60000	2	192(33,20,11, 2, 0, 0, 0, 0, 0, 0)	68	112200000100003	
3085	6	6	60000	2	336(32,18,12, 2, 0, 0, 0, 0, 0, 0)	68	112200000200001	
3086	6	6	60000	2	1128(34,22,10, 2, 0, 0, 0, 0, 0, 0)	68	112200000200002	
3087	6	6	60000	2	912(35,24, 9, 2, 0, 0, 0, 0, 0, 0)	68	112200000200003	
3088	6	6	60000	2	912(36,26, 8, 2, 0, 0, 0, 0, 0, 0)	68	112200000300003	
3089	6	6	60000	2	432(33,20,11, 2, 0, 0, 0, 0, 0, 0)	68	112200000300001	
3090	6	6	60000	2	1200(35,24, 9, 2, 0, 0, 0, 0, 0, 0)	68	112200000300002	
3091	6	6	60000	2	1008(34,22,10, 2, 0, 0, 0, 0, 0, 0)	68	112300000300001	
3092	6	6	60000	2	2736(36,26, 8, 2, 0, 0, 0, 0, 0, 0)	68	112300000300002	
3093	6	6	60000	2	1776(37,28, 7, 2, 0, 0, 0, 0, 0, 0)	68	112300000300003	
3094	6	6	60000	2	576(34,22,10, 2, 0, 0, 0, 0, 0, 0)	68	112300000100003	
3095	6	6	60000	2	144(31,16,13, 2, 0, 0, 0, 0, 0, 0)	68	112300000100001	
3096	6	6	60000	2	576(33,20,11, 2, 0, 0, 0, 0, 0, 0)	68	112300000100002	
3097	6	6	60000	2	864(33,20,11, 2, 0, 0, 0, 0, 0, 0)	68	112300000200001	
3098	6	6	60000	2	2736(35,24, 9, 2, 0, 0, 0, 0, 0, 0)	68	112300000200002	
3099	6	6	60000	2	2304(36,26, 8, 2, 0, 0, 0, 0, 0, 0)	68	112300000200003	
3100	6	6	60000	2	192(32,17,14, 1, 0, 0, 0, 0, 0, 0)	70	213200000100001	
3101	6	6	60000	2	768(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	213200000100002	
3102	6	6	60000	2	768(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	213200000100003	
3103	6	6	60000	2	1344(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	213200000200001	
3104	6	6	60000	2	4512(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	213200000200002	
3105	6	6	60000	2	3552(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	213200000200003	
3106	6	6	60000	2	1728(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	213200000300001	
3107	6	6	60000	2	4704(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	213200000300002	
3108	6	6	60000	2	3552(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	213200000300003	
3109	6	6	60000	2	1728(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	213300000100003	
3110	6	6	60000	2	432(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	213300000100001	
3111	6	6	60000	2	1728(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	213300000100002	
3112	6	6	60000	2	2400(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	213300000200001	
3113	6	6	60000	2	6336(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	213300000200003	
3114	6	6	60000	2	7536(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	213300000200002	
3115	6	6	60000	2	4944(39,31, 7, 1, 0, 0, 0, 0, 0, 0)	70	213300000300003	
3116	6	6	60000	2	2736(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	213300000300001	
3117	6	6	60000	2	7440(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	213300000300002	
3118	6	6	60000	2	96(30,13,16, 1, 0, 0, 0, 0, 0, 0)	70	321100000100001	
3119	6	6	60000	2	384(32,17,14, 1, 0, 0, 0, 0, 0, 0)	70	321100000100002	
3120	6	6	60000	2	384(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	321100000100003	
3121	6	6	60000	2	2688(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	321100000200002	
3122	6	6	60000	2	2304(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	321100000200003	
3123	6	6	60000	2	768(32,17,14, 1, 0, 0, 0, 0, 0, 0)	70	321100000200001	
3124	6	6	60000	2	3456(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	321100000300002	
3125	6	6	60000	2	2688(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	321100000300003	
3126	6	6	60000	2	1152(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	321100000300001	
3127	6	6	60000	2	2688(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	321200000100002	
3128	6	6	60000	2	2688(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	321200000100003	
3129	6	6	60000	2	672(32,17,14, 1, 0, 0, 0, 0, 0, 0)	70	321200000100001	
3130	6	6	60000	2	14448(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	321200000200002	
3131	6	6	60000	2	11712(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	321200000200003	
3132	6	6	60000	2	4320(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	321200000200001	
3133	6	6	60000	2	14304(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	321200000300002	
3134	6	6	60000	2	10944(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	321200000300003	
3135	6	6	60000	2	5184(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	321200000300001	
3136	6	6	60000	2	3456(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	321300000100002	
3137	6	6	60000	2	3456(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	321300000100003	
3138	6	6	60000	2	864(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	321300000100001	
3139	6	6	60000	2	14400(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	321300000200002	
3140	6	6	60000	2	12288(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	321300000200003	
3141	6	6	60000	2	4608(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	321300000200001	
3142	6	6	60000	2	13104(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	321300000300002	
3143	6	6	60000	2	8736(39,31, 7, 1, 0, 0, 0, 0, 0, 0)	70	321300000300003	
3144	6	6	60000	2	4752(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	321300000300001	
3145	6	6	60000	2	48(31,15,15, 1, 0, 0, 0, 0, 0, 0)	70	222100000100001	
3146	6	6	60000	2	192(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	222100000100002	
3147	6	6	60000	2	192(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	222100000100003	
3148	6	6	60000	2	1344(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	222100000200002	
3149	6	6	60000	2	1152(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	222100000200003	
3150	6	6	60000	2	384(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	222100000200001	
3151	6	6	60000	2	1728(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	222100000300002	
3152	6	6	60000	2	1344(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	222100000300003	
3153	6	6	60000	2	576(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	222100000300001	
3154	6	6	60000	2	1920(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	222200000100002	
3155	6	6	60000	2	1920(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	222200000100003	
3156	6	6	60000	2	480(33,19,13, 1, 0, 0, 0, 0, 0, 0)	70	222200000100001	
3157	6	6	60000	2	10704(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	222200000200002	
3158	6	6	60000	2	8448(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	222200000200003	
3159	6	6	60000	2	3168(35,23,11, 1, 0, 0, 0, 0, 0, 0)	70	222200000200001	
3160	6	6	60000	2	10272(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	222200000300002	
3161	6	6	60000	2	7776(39,31, 7, 1, 0, 0, 0, 0, 0, 0)	70	222200000300003	
3162	6	6	60000	2	3744(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	222200000300001	
3163	6	6	60000	2	4320(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	222300000300001	
3164	6	6	60000	2	11712(39,31, 7, 1, 0, 0, 0, 0, 0, 0)	70	222300000300002	
3165	6	6	60000	2	7920(40,33, 6, 1, 0, 0, 0, 0, 0, 0)	70	222300000300003	
3166	6	6	60000	2	2880(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	222300000100002	
3167	6	6	60000	2	2880(37,27, 9, 1, 0, 0, 0, 0, 0, 0)	70	222300000100003	
3168	6	6	60000	2	720(34,21,12, 1, 0, 0, 0, 0, 0, 0)	70	222300000100001	
3169	6	6	60000	2	11760(38,29, 8, 1, 0, 0, 0, 0, 0, 0)	70	222300000200002	
3170	6	6	60000	2	9888(39,31, 7, 1, 0, 0, 0, 0, 0, 0)	70	222300000200003	
3171	6	6	60000	2	3744(36,25,10, 1, 0, 0, 0, 0, 0, 0)	70	222300000200001	
(6,2)	1	6	10	51000	120	-164160(30,19, 7, 2, 1, 1, 0, 0, 0, 0)	58	312122211100000
	2	6	10	51000	120	-169920(31,20, 7, 3, 0, 1, 0, 0, 0, 0)	60	213312221100000
	3	6	10	51000	120			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
10	6	9	51000	12	-9504(34,24,8,0,2,0,0,0,0,0)	64	112322322000000	
11	6	8	51000	4	-5472(30,18,8,2,2,0,0,0,0,0)	60	121121200100000	
12	6	8	51000	4	-12096(32,21,8,1,2,0,0,0,0,0)	62	121121300200000	
13	6	8	51000	4	-12096(32,22,5,4,1,0,0,0,0,0)	60	321121200100000	
14	6	8	51000	4	-25920(34,25,5,3,1,0,0,0,0,0)	62	321121300200000	
15	6	8	51000	4	-12096(32,22,5,4,1,0,0,0,0,0)	60	211132200100000	
16	6	8	51000	4	-26112(34,25,5,3,1,0,0,0,0,0)	62	211132300200000	
17	6	8	51000	4	-12480(33,22,8,2,1,0,0,0,0,0)	64	231221300100000	
18	6	8	51000	4	-25536(34,24,7,2,1,0,0,0,0,0)	64	231221200200000	
19	6	8	51000	4	-12480(33,22,8,2,1,0,0,0,0,0)	64	121232300100000	
20	6	8	51000	4	-12480(33,23,6,3,1,0,0,0,0,0)	62	222131200100000	
21	6	8	51000	4	-12480(33,23,6,3,1,0,0,0,0,0)	62	312122200100000	
22	6	8	51000	4	-26880(35,26,6,2,1,0,0,0,0,0)	64	222131300200000	
23	6	8	51000	4	-26688(35,26,6,2,1,0,0,0,0,0)	64	312122300200000	
24	6	8	51000	4	-6240(33,21,10,1,1,0,0,0,0,0)	66	132231300100000	
25	6	8	51000	4	-6432(34,23,9,1,1,0,0,0,0,0)	66	132231200200000	
26	6	8	51000	4	-6624(34,26,3,4,1,0,0,0,0,0)	60	222111300200000	
27	6	8	51000	4	-6624(34,26,3,4,1,0,0,0,0,0)	60	112122300200000	
28	6	8	51000	4	-13248(34,25,5,3,1,0,0,0,0,0)	62	123121300200000	
29	6	8	51000	4	-12480(33,22,8,2,1,0,0,0,0,0)	64	231132200100000	
30	6	8	51000	4	-19872(35,25,8,1,1,0,0,0,0,0)	66	231132300200000	
31	6	8	51000	4	-6624(35,25,8,1,1,0,0,0,0,0)	66	222223001000000	
32	6	8	51000	4	-6720(36,27,7,1,1,0,0,0,0,0)	66	222222200200000	
33	6	8	51000	8	-1512(32,24,0,8,0,0,0,0,0,0)	60	112102120200000	
34	6	8	51000	8	-13248(34,26,2,6,0,0,0,0,0,0)	60	123103120200000	
35	6	8	51000	8	-13632(35,27,3,5,0,0,0,0,0,0)	62	222103130200000	
36	6	8	51000	8	-10512(36,28,4,4,0,0,0,0,0,0)	64	213203130300000	
37	6	8	51000	8	-13824(36,28,4,4,0,0,0,0,0,0)	64	213203220200000	
38	6	8	51000	8	-3456(36,28,4,4,0,0,0,0,0,0)	64	222202220200000	
39	6	7	51000	2	-3024(32,22,4,6,0,0,0,0,0,0)	60	112102210000000	
40	6	7	51000	2	-6624(34,25,4,5,0,0,0,0,0,0)	62	112302120000000	
41	6	7	51000	2	-6624(34,25,4,5,0,0,0,0,0,0)	62	112203210000000	
42	6	7	51000	2	-1512(32,22,4,6,0,0,0,0,0,0)	60	112201210000000	
43	6	7	51000	2	-6624(34,25,4,5,0,0,0,0,0,0)	62	112302210000000	
44	6	7	51000	2	-3600(36,28,4,4,0,0,0,0,0,0)	64	112203230000000	
45	6	7	51000	2	-14208(36,28,4,4,0,0,0,0,0,0)	64	112203320000000	
46	6	7	51000	2	-7152(36,29,4,4,0,0,0,0,0,0)	64	112302320000000	
47	6	7	51000	2	-6624(34,24,6,4,0,0,0,0,0,0)	64	123103210000000	
48	6	7	51000	2	-10608(36,27,6,3,0,0,0,0,0,0)	66	123103320000000	
49	6	7	51000	2	-6816(35,26,5,4,0,0,0,0,0,0)	64	123202120000000	
50	6	7	51000	2	-14496(37,29,5,3,0,0,0,0,0,0)	66	213203220000000	
51	6	7	51000	2	-13632(35,26,5,4,0,0,0,0,0,0)	64	123202210000000	
52	6	7	51000	2	-21696(37,29,5,3,0,0,0,0,0,0)	66	213302220000000	
53	6	7	51000	2	-6624(34,24,6,4,0,0,0,0,0,0)	64	213102310000000	
54	6	7	51000	2	-10512(36,27,6,3,0,0,0,0,0,0)	66	213203310000000	
55	6	7	51000	2	-6624(34,24,6,4,0,0,0,0,0,0)	64	123301210000000	
56	6	7	51000	2	-10608(36,27,6,3,0,0,0,0,0,0)	66	213302310000000	
57	6	7	51000	2	-7008(36,27,6,3,0,0,0,0,0,0)	66	222103220000000	
58	6	7	51000	2	-6816(35,25,7,3,0,0,0,0,0,0)	66	222103310000000	
59	6	7	51000	2	-10704(37,29,5,3,0,0,0,0,0,0)	66	222202220000000	
60	6	7	51000	2	-13920(36,27,6,3,0,0,0,0,0,0)	66	222202310000000	
61	6	7	51000	2	-3408(35,25,7,3,0,0,0,0,0,0)	66	222301310000000	
62	6	7	51000	12	-20736(36,28,4,4,0,0,0,0,0,0)	64	312302201000000	
63	6	7	51000	12	-42048(36,28,4,4,0,0,0,0,0,0)	64	213302201000000	
64	6	7	51000	12	-20736(36,28,4,4,0,0,0,0,0,0)	64	213203201000000	
65	6	7	51000	12	-21600(38,31,4,3,0,0,0,0,0,0)	66	312302302000000	
66	6	7	51000	12	-65952(38,31,4,3,0,0,0,0,0,0)	66	213302302000000	
67	6	7	51000	4	-6912(36,26,8,2,0,0,0,0,0,0)	68	321032200200000	
68	6	7	51000	4	-14688(38,30,6,2,0,0,0,0,0,0)	68	321032300300000	
69	6	7	51000	4	-14208(37,28,7,2,0,0,0,0,0,0)	68	231032300200000	
70	6	7	51000	4	-3744(38,30,6,2,0,0,0,0,0,0)	68	222022300300000	
71	6	7	51000	6	-81792(35,26,6,2,1,0,0,0,0,0)	64	121321000300000	
72	6	7	51000	6	-18144(32,20,9,2,1,0,0,0,0,0)	64	121321000100000	
73	6	7	51000	6	-79048(34,24,7,2,1,0,0,0,0,0)	64	121321000200000	
74	6	7	51000	6	-4536(32,20,10,0,2,0,0,0,0,0)	64	112211000200000	
75	6	7	51000	6	-9648(33,22,9,0,2,0,0,0,0,0)	64	112211000300000	
76	6	7	51000	6	-40896(35,27,4,3,1,0,0,0,0,0)	62	211221000300000	
77	6	7	51000	6	-9072(32,21,7,3,1,0,0,0,0,0)	62	211221000100000	
78	6	7	51000	6	-38880(34,25,5,3,1,0,0,0,0,0)	62	211221000200000	
79	6	7	51000	6	-52272(36,27,7,1,1,0,0,0,0,0)	66	112322000300000	
80	6	7	51000	6	-9360(33,21,10,1,1,0,0,0,0,0)	66	112322000100000	
81	6	7	51000	6	-50256(35,25,8,1,1,0,0,0,0,0)	66	112322000200000	
82	6	7	51000	6	-19972(34,24,7,2,1,0,0,0,0,0)	64	312211000200000	
83	6	7	51000	6	-41472(35,26,6,2,1,0,0,0,0,0)	64	312211000300000	
84	6	7	51000	6	-40896(35,25,8,1,1,0,0,0,0,0)	66	231221000200000	
85	6	7	51000	6	-63360(36,27,7,1,1,0,0,0,0,0)	66	231221000300000	
86	6	7	51000	6	-20448(35,24,10,0,1,0,0,0,0,0)	68	123321000200000	
87	6	7	51000	6	-31824(36,26,9,0,1,0,0,0,0,0)	68	123321000300000	
88	6	7	51000	6	-3504(35,27,4,3,1,0,0,0,0,0)	62	222111000300000	
89	6	7	51000	6	-21456(36,27,7,1,1,0,0,0,0,0)	66	222311000300000	
90	6	7	51000	6	-10224(35,25,8,1,1,0,0,0,0,0)	66	222311000200000	
91	6	7	51000	6	-14736(38,30,7,0,1,0,0,0,0,0)	68	222222000300000	
92	6	7	51000	6	-10800(37,28,8,0,1,0,0,0,0,0)	68	222222000200000	
93	6	7	42000	48	-238464(32,20,9,2,1,0,0,0,0,0)	64	312211000000001	
94	6	7	42000	48	-543744(34,24,7,2,1,0,0,0,0,0)	64	312211000000002	
95	6	7	42000	48	-391680(35,26,6,2,1,0,0,0,0,0)	64	312211000000003	
96	6	7	42000	48	-26496(30,16,12,0,2,0,0,0,0,0)	64	112211000000001	
97	6	7	42000	48	-61344(32,20,10,0,2,0,0,0,0,0)	64	112211000000002	
98	6	7	42000	48	-44928(33,22,9,0,2,0,0,0,0,0)	64	112211000000003	
99	6	7	42000	48	-79488(32,21,7,3,1,0,0,0,0,0)	62	222111000000001	
100	6	7	42000	48	-180864(34,25,5,3,1,0,0,0,0,0)	62	222111000000002	
101	6	7	42000	48	-130560(35,27,4,3,1,0,0,0,0,0)	62	222111000000003	
102	6	7	42000	48	-246528(33,21,10,1,1,0,0,0,0,0)	66	222311000000001	
103	6	7	42000	48	-561024(35,25,8,1,1,0,0,0,0,0)	66	222311000000002	
104	6	7	42000	48	-405504(36,27,7,1,1,0,0,0,0,0)	66	222311000000003	
105	6	7	42000	48	-61632(33,20,12,0,1,0,0,0,0,0)	68	123321000000001	
106	6	7	42000	48	-140544(35,24,10,0,1,0,0,0,0,0)	68	123321000000002	
107	6	7	42000	48	-101376(36,26,9,0,1,0,0,0,0,0)	68	123321000000003	
108	6	7	42000	48	-21888(35,24,10,0,1,0,0,0,0,0)	68	222222000000001	
109	6	7	42000	48	-49536(37,28,8,0,1,0,0,0,0,0)	68	222222000000002	
110	6	7	42000	48	-36096(38,30,7,0,1,0,0,0,0,0)	68	222222000000003	
111	6	6	51000	2	-1594(34,22,10,2,0,0,0,0,0,0)	68	211200020200000	
112	6	6	51000	2	-6912(36,26,8,2,0,0,0,0,0,0)	68	211300020300000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
113	6	6	51000	2	-3504(36,26,8,2,0,0,0,0,0,0)	68	2113000302000000	
114	6	6	51000	2	-7488(38,29,8,1,0,0,0,0,0,0)	70	2133000203000000	
115	6	6	51000	2	-7584(39,29,8,1,0,0,0,0,0,0)	70	2313000302000000	
116	6	6	51000	2	-3552(37,27,9,1,0,0,0,0,0,0)	70	2220002020000000	
117	6	6	51000	2	-15168(39,31,7,1,0,0,0,0,0,0)	70	2223000203000000	
118	6	6	51000	2	-11472(39,31,7,1,0,0,0,0,0,0)	70	2223000302000000	
119	6	6	51000	2	-7200(37,27,9,1,0,0,0,0,0,0)	70	3212000203000000	
120	6	6	51000	2	-7104(37,27,9,1,0,0,0,0,0,0)	70	3213000202000000	
121	6	6	51000	2	-7104(37,27,9,1,0,0,0,0,0,0)	70	3123000202000000	
122	6	6	51000	2	-18912(39,31,7,1,0,0,0,0,0,0)	70	3213000303000000	
123	6	6	51000	8	-23904(32,20,8,4,0,0,0,0,0,0)	64	2112001001000000	
124	6	6	51000	8	-52224(34,23,8,3,0,0,0,0,0,0)	66	3122001001000000	
125	6	6	51000	8	-53376(35,25,7,3,0,0,0,0,0,0)	66	2222001001000000	
126	6	6	51000	8	-104064(34,23,8,3,0,0,0,0,0,0)	66	3212001001000000	
127	6	6	51000	8	-28128(36,26,8,2,0,0,0,0,0,0)	68	3123001002000000	
128	6	6	51000	8	-57600(37,28,7,2,0,0,0,0,0,0)	68	2223001002000000	
129	6	6	51000	8	-112128(36,26,8,2,0,0,0,0,0,0)	68	3123002001000000	
130	6	6	51000	8	-13248(34,23,8,3,0,0,0,0,0,0)	66	1123002001000000	
131	6	6	51000	8	-14784(37,28,7,2,0,0,0,0,0,0)	68	2132002002000000	
132	6	6	51000	8	-56832(36,26,8,2,0,0,0,0,0,0)	68	2133002001000000	
133	6	6	51000	8	-143424(37,28,7,2,0,0,0,0,0,0)	68	2223002001000000	
134	6	6	51000	8	-97248(36,26,8,2,0,0,0,0,0,0)	68	3213002001000000	
135	6	6	51000	8	-44352(38,30,6,2,0,0,0,0,0,0)	68	2222002002000000	
136	6	6	51000	2	-3024(32,20,8,4,0,0,0,0,0,0)	64	2112010100000000	
137	6	6	51000	2	-13104(34,24,6,4,0,0,0,0,0,0)	64	2112010200000000	
138	6	6	51000	2	-13824(35,26,5,4,0,0,0,0,0,0)	64	2112010300000000	
139	6	6	51000	2	-3024(32,20,8,4,0,0,0,0,0,0)	64	1122010100000000	
140	6	6	51000	2	-13104(34,24,6,4,0,0,0,0,0,0)	64	1122010200000000	
141	6	6	51000	2	-13824(35,26,5,4,0,0,0,0,0,0)	64	1122010300000000	
142	6	6	51000	2	-6624(34,23,8,3,0,0,0,0,0,0)	66	2113020100000000	
143	6	6	51000	2	-28512(36,27,6,3,0,0,0,0,0,0)	66	2113020200000000	
144	6	6	51000	2	-29952(37,29,5,3,0,0,0,0,0,0)	66	2113020300000000	
145	6	6	51000	2	-6624(34,23,8,3,0,0,0,0,0,0)	66	1123020100000000	
146	6	6	51000	2	-28512(36,27,6,3,0,0,0,0,0,0)	66	1123020200000000	
147	6	6	51000	2	-29952(37,29,5,3,0,0,0,0,0,0)	66	1123020300000000	
148	6	6	51000	2	-3312(34,22,10,2,0,0,0,0,0,0)	68	3213010100000000	
149	6	6	51000	2	-14208(36,26,8,2,0,0,0,0,0,0)	68	3213010200000000	
150	6	6	51000	2	-14832(37,28,7,2,0,0,0,0,0,0)	68	3213010300000000	
151	6	6	51000	2	-6816(35,24,9,2,0,0,0,0,0,0)	68	3212020100000000	
152	6	6	51000	2	-29184(37,28,7,2,0,0,0,0,0,0)	68	3212020200000000	
153	6	6	51000	2	-30432(38,30,6,2,0,0,0,0,0,0)	68	3212020300000000	
154	6	6	51000	2	-3312(34,22,10,2,0,0,0,0,0,0)	68	1233010100000000	
155	6	6	51000	2	-14208(36,26,8,2,0,0,0,0,0,0)	68	1233010200000000	
156	6	6	51000	2	-14832(37,28,7,2,0,0,0,0,0,0)	68	1233010300000000	
157	6	6	51000	2	-13248(34,23,8,3,0,0,0,0,0,0)	66	3122010100000000	
158	6	6	51000	2	-49440(36,27,6,3,0,0,0,0,0,0)	66	3122010200000000	
159	6	6	51000	2	-44064(37,29,5,3,0,0,0,0,0,0)	66	3122010300000000	
160	6	6	51000	2	-21024(36,26,8,2,0,0,0,0,0,0)	68	3123020100000000	
161	6	6	51000	2	-70992(38,30,6,2,0,0,0,0,0,0)	68	3123020200000000	
162	6	6	51000	2	-54480(39,32,5,2,0,0,0,0,0,0)	68	3123020300000000	
163	6	6	51000	2	-13248(34,23,8,3,0,0,0,0,0,0)	66	2132010100000000	
164	6	6	51000	2	-49440(36,27,6,3,0,0,0,0,0,0)	66	2132010200000000	
165	6	6	51000	2	-44064(37,29,5,3,0,0,0,0,0,0)	66	2132010300000000	
166	6	6	51000	2	-21216(36,26,8,2,0,0,0,0,0,0)	68	2133020100000000	
167	6	6	51000	2	-71472(38,30,6,2,0,0,0,0,0,0)	68	2133020200000000	
168	6	6	51000	2	-62544(39,32,5,2,0,0,0,0,0,0)	68	2133020300000000	
169	6	6	51000	2	-36384(37,28,7,2,0,0,0,0,0,0)	68	2223010200000000	
170	6	6	51000	2	-37824(38,30,6,2,0,0,0,0,0,0)	68	2223010300000000	
171	6	6	51000	2	-6816(35,24,9,2,0,0,0,0,0,0)	68	2223010100000000	
172	6	6	51000	2	-37104(38,30,6,2,0,0,0,0,0,0)	68	2222020200000000	
173	6	6	51000	2	-34752(39,32,5,2,0,0,0,0,0,0)	68	2222020300000000	
174	6	6	51000	2	-6960(36,26,8,2,0,0,0,0,0,0)	68	2222020100000000	
175	6	6	51000	2	-3168(34,24,6,4,0,0,0,0,0,0)	64	1122012000000000	
176	6	6	51000	2	-6816(35,26,5,4,0,0,0,0,0,0)	64	1122013000000000	
177	6	6	51000	2	-7392(37,29,5,3,0,0,0,0,0,0)	66	2131023000000000	
178	6	6	51000	2	-7008(36,27,6,3,0,0,0,0,0,0)	66	3121022000000000	
179	6	6	51000	2	-14592(37,29,5,3,0,0,0,0,0,0)	66	3121023000000000	
180	6	6	51000	2	-7104(37,27,9,1,0,0,0,0,0,0)	68	1232022000000000	
181	6	6	51000	2	-14976(38,30,6,2,0,0,0,0,0,0)	68	1232023000000000	
182	6	6	51000	2	-7008(36,26,8,2,0,0,0,0,0,0)	68	1233012000000000	
183	6	6	51000	2	-10848(37,28,7,2,0,0,0,0,0,0)	68	1233013000000000	
184	6	6	51000	2	-14112(36,27,6,3,0,0,0,0,0,0)	66	2132012000000000	
185	6	6	51000	2	-21984(37,29,5,3,0,0,0,0,0,0)	66	2132013000000000	
186	6	6	51000	2	-1512(32,20,8,4,0,0,0,0,0,0)	64	2112011000000000	
187	6	6	51000	2	-6480(34,24,6,4,0,0,0,0,0,0)	64	2112012000000000	
188	6	6	51000	2	-6816(35,26,5,4,0,0,0,0,0,0)	64	2112013000000000	
189	6	6	51000	2	-6624(34,23,8,3,0,0,0,0,0,0)	66	3122011000000000	
190	6	6	51000	2	-28128(36,27,6,3,0,0,0,0,0,0)	66	3122012000000000	
191	6	6	51000	2	-29280(37,29,5,3,0,0,0,0,0,0)	66	3122013000000000	
192	6	6	51000	2	-3744(38,30,6,2,0,0,0,0,0,0)	68	2132032000000000	
193	6	6	51000	2	-11568(39,32,5,2,0,0,0,0,0,0)	68	2132033000000000	
194	6	6	51000	2	-22560(38,30,6,2,0,0,0,0,0,0)	68	2133022000000000	
195	6	6	51000	2	-34752(39,32,5,2,0,0,0,0,0,0)	68	2133023000000000	
196	6	6	51000	2	-25632(38,30,6,2,0,0,0,0,0,0)	68	2222022000000000	
197	6	6	51000	2	-30432(39,32,5,2,0,0,0,0,0,0)	68	2222023000000000	
198	6	6	51000	2	-3456(36,26,8,2,0,0,0,0,0,0)	68	2222021000000000	
199	6	6	51000	2	-6816(35,24,9,2,0,0,0,0,0,0)	68	2223011000000000	
200	6	6	51000	2	-36000(37,28,7,2,0,0,0,0,0,0)	68	2223012000000000	
201	6	6	51000	2	-37152(38,30,6,2,0,0,0,0,0,0)	68	2223013000000000	
202	6	6	51000	2	-5256(36,26,8,2,0,0,0,0,0,0)	68	3123021000000000	
203	6	6	51000	2	-22224(38,30,6,2,0,0,0,0,0,0)	68	3123022000000000	
204	6	6	51000	2	-22992(39,32,5,2,0,0,0,0,0,0)	68	3123023000000000	
205	6	6	51000	2	-3312(34,22,10,2,0,0,0,0,0,0)	68	3213011000000000	
206	6	6	51000	2	-12264(36,26,8,2,0,0,0,0,0,0)	68	3213012000000000	
207	6	6	51000	2	-10848(37,28,7,2,0,0,0,0,0,0)	68	3213013000000000	
208	6	6	42000	8	-19872(32,20,8,4,0,0,0,0,0,0)	64	2112010000000001	
209	6	6	42000	8	-45504(34,24,6,4,0,0,0,0,0,0)	64	2112010000000002	
210	6	6	42000	8	-33024(35,26,5,4,0,0,0,0,0,0)	64	2112010000000003	
211	6	6	42000	8	-19872(32,20,8,4,0,0,0,0,0,0)	64	1122010000000001	
212	6	6	42000	8	-45504(34,24,6,4,0,0,0,0,0,0)	64	1122010000000002	
213	6	6	42000	8	-33024(35,26,5,4,0,0,0,0,0,0)	64	1122010000000003	
214	6	6	42000	8	-88320(34,23,8,3,0,0,0,0,0,0)	66	3122010000000001	
215	6	6	42000	8	-200064(36,27,6,3,0,0,0,0,0,0)	66	3122010000000002	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
216	6	6	42000	8	-143232(37,29,5,3,0,0,0,0,0,01	66	312201000000003	
217	6	6	42000	8	-88320(34,23,8,3,0,0,0,0,0,0)	66	213201000000001	
218	6	6	42000	8	-200064(36,27,6,3,0,0,0,0,0,0)	66	213201000000007	
219	6	6	42000	8	-143232(37,29,5,3,0,0,0,0,0,0)	66	213201000000003	
220	6	6	42000	8	-22080(34,22,10,2,0,0,0,0,0,0)	68	321301000000001	
221	6	6	42000	8	-49920(36,26,8,2,0,0,0,0,0,0)	68	321301000000002	
222	6	6	42000	8	-35520(37,28,7,2,0,0,0,0,0,0)	68	321301000000003	
223	6	6	42000	8	-91008(35,24,9,2,0,0,0,0,0,0)	68	222301000000001	
224	6	6	42000	8	-205056(37,28,7,2,0,0,0,0,0,0)	68	222301000000002	
225	6	6	42000	8	-146688(38,30,6,2,0,0,0,0,0,0)	68	222301000000003	
226	6	6	42000	8	-22080(34,22,10,2,0,0,0,0,0,0)	68	123301000000001	
227	6	6	42000	8	-49920(36,26,8,2,0,0,0,0,0,0)	68	123301000000002	
228	6	6	42000	8	-35520(37,28,7,2,0,0,0,0,0,0)	68	123301000000003	
229	6	6	42000	8	-70368(36,26,8,2,0,0,0,0,0,0)	68	312302000000001	
230	6	6	42000	8	-158784(38,30,6,2,0,0,0,0,0,0)	68	312302000000002	
231	6	6	42000	8	-113088(39,32,5,2,0,0,0,0,0,0)	68	312302000000003	
232	6	6	42000	8	-71136(36,26,8,2,0,0,0,0,0,01	68	213302000000001	
233	6	6	42000	8	-160128(38,30,6,2,0,0,0,0,0,0)	68	213302000000002	
234	6	6	42000	8	-114240(39,32,5,2,0,0,0,0,0,0)	68	213302000000003	
235	6	6	42000	8	-46464(36,26,8,2,0,0,0,0,0,0)	68	222202000000001	
236	6	6	42000	8	-104544(38,30,6,2,0,0,0,0,0,0)	68	222202000000002	
237	6	6	42000	8	-75072(39,32,5,2,0,0,0,0,0,0)	68	222202000000003	
238	6	5	51000	2	-13104(34,22,10,2,0,0,0,0,0,0)	68	121200001000000	
239	6	5	51000	2	-13824(35,24,9,2,0,0,0,0,0,0)	68	121300001000000	
240	6	5	51000	2	-1512(37,18,12,2,0,0,0,0,0,0)	68	121100001000000	
241	6	5	51000	2	-26520(36,26,8,2,0,0,0,0,0,0)	68	121200002000000	
242	6	5	51000	2	-52032(37,28,7,2,0,0,0,0,0,0)	68	121300002000000	
243	6	5	51000	2	-27264(38,30,6,2,0,0,0,0,0,01	68	121300003000000	
244	6	5	51000	2	-24720(36,25,10,1,0,0,0,0,0,0)	70	231200001000000	
245	6	5	51000	2	-22032(37,27,9,1,0,0,0,0,0,0)	70	231300001000000	
246	6	5	51000	2	-6624(34,21,12,1,0,0,0,0,0,0)	70	231100001000000	
247	6	5	51000	2	-98016(38,29,8,1,0,0,0,0,0,0)	70	231200002000000	
248	6	5	51000	2	-86304(39,31,7,1,0,0,0,0,0,0)	70	231300002000000	
249	6	5	51000	2	-28416(36,25,10,1,0,0,0,0,0,0)	70	132200001000000	
250	6	5	51000	2	-102288(39,31,7,1,0,0,0,0,0,0)	70	132300002000000	
251	6	5	51000	2	-78096(40,33,6,1,0,0,0,0,0,0)	70	231300003000000	
252	6	5	51000	2	-29664(37,27,9,1,0,0,0,0,0,0)	70	132300001000000	
253	6	5	51000	2	-14256(36,26,8,2,0,0,0,0,0,0)	68	211200002000000	
254	6	5	51000	2	-14976(37,28,7,2,0,0,0,0,0,0)	68	211300002000000	
255	6	5	51000	2	-3312(34,22,10,2,0,0,0,0,0,0)	68	112200001000000	
256	6	5	51000	2	-30048(37,28,7,2,0,0,0,0,0,0)	68	112300002000000	
257	6	5	51000	2	-31488(38,30,6,2,0,0,0,0,0,0)	68	211300003000000	
258	6	5	51000	2	-7008(35,24,9,2,0,0,0,0,0,0)	68	112300001000000	
259	6	5	51000	2	-53376(38,29,8,1,0,0,0,0,0,0)	70	321200002000000	
260	6	5	51000	2	-47328(39,31,7,1,0,0,0,0,0,0)	70	321300002000000	
261	6	5	51000	2	-14400(36,25,10,1,0,0,0,0,0,0)	70	123200001000000	
262	6	5	51000	2	-75072(39,31,7,1,0,0,0,0,0,0)	70	123300002000000	
263	6	5	51000	2	-65328(40,33,6,1,0,0,0,0,0,0)	70	321300003000000	
264	6	5	51000	2	-22368(37,27,9,1,0,0,0,0,0,0)	70	123300001000000	
265	6	5	51000	2	-31968(39,31,7,1,0,0,0,0,0,0)	70	312300002000000	
266	6	5	51000	2	-7200(36,25,10,1,0,0,0,0,0,0)	70	213200001000000	
267	6	5	51000	2	-30720(38,29,9,1,0,0,0,0,0,01	70	312200002000000	
268	6	5	51000	2	-49488(40,33,6,1,0,0,0,0,0,0)	70	312300003000000	
269	6	5	51000	2	-11184(37,27,9,1,0,0,0,0,0,0)	70	213300001000000	
270	6	5	51000	2	-47616(39,31,7,1,0,0,0,0,0,0)	70	213300002000000	
271	6	5	51000	2	-37824(38,29,8,1,0,0,0,0,0,0)	70	222300001000000	
272	6	5	51000	2	-3408(35,23,11,1,0,0,0,0,0,0)	70	222100001000000	
273	6	5	51000	2	-36384(37,27,9,1,0,0,0,0,0,0)	70	222200001000000	
274	6	5	51000	2	-184608(40,33,6,1,0,0,0,0,0,0)	70	222300002000000	
275	6	5	51000	2	-92928(39,31,7,1,0,0,0,0,0,0)	70	222200002000000	
276	6	5	51000	2	-91584(41,35,5,1,0,0,0,0,0,0)	70	222300003000000	
277	6	5	42000	4	-19872(32,18,12,2,0,0,0,0,0,0)	68	211100000000001	
278	6	5	42000	4	-45792(34,22,10,2,0,0,0,0,0,0)	68	211100000000002	
279	6	5	42000	4	-33408(35,24,9,2,0,0,0,0,0,01	68	211100000000003	
280	6	5	42000	4	-87072(34,22,10,2,0,0,0,0,0,0)	68	211200000000001	
281	6	5	42000	4	-198912(36,26,8,2,0,0,0,0,0,0)	68	211200000000002	
282	6	5	42000	4	-144000(37,28,7,2,0,0,0,0,0,0)	68	211200000000003	
283	6	5	42000	4	-92736(35,24,9,2,0,0,0,0,0,0)	68	211300000000001	
284	6	5	42000	4	-210240(37,28,7,2,0,0,0,0,0,0)	68	211300000000002	
285	6	5	42000	4	-150720(38,30,6,2,0,0,0,0,0,0)	68	211300000000003	
286	6	5	42000	4	-22080(34,21,12,1,0,0,0,0,0,0)	70	312100000000001	
287	6	5	42000	4	-50304(36,25,10,1,0,0,0,0,0,0)	70	312100000000002	
288	6	5	42000	4	-36192(37,27,9,1,0,0,0,0,0,0)	70	312100000000003	
289	6	5	42000	4	-95472(36,25,10,1,0,0,0,0,0,0)	70	312200000000001	
290	6	5	42000	4	-216000(38,29,8,1,0,0,0,0,0,0)	70	312200000000002	
291	6	5	42000	4	-154944(39,31,7,1,0,0,0,0,0,0)	70	312200000000003	
292	6	5	42000	4	-100272(37,27,9,1,0,0,0,0,0,0)	70	312300000000001	
293	6	5	42000	4	-225792(39,31,7,1,0,0,0,0,0,0)	70	312300000000002	
294	6	5	42000	4	-160704(40,33,6,1,0,0,0,0,0,0)	70	312300000000003	
295	6	5	42000	4	-11040(34,22,10,2,0,0,0,0,0,0)	68	112200000000001	
296	6	5	42000	4	-25200(36,26,8,2,0,0,0,0,0,0)	68	112200000000002	
297	6	5	42000	4	-19240(37,28,7,2,0,0,0,0,0,0)	68	112200000000003	
298	6	5	42000	4	-23616(35,24,9,2,0,0,0,0,0,0)	68	112300000000001	
299	6	5	42000	4	-53472(37,28,7,2,0,0,0,0,0,0)	68	112300000000002	
300	6	5	42000	4	-38208(38,30,6,2,0,0,0,0,0,0)	68	112300000000003	
301	6	5	42000	4	-48576(36,25,10,1,0,0,0,0,0,0)	70	213200000000001	
302	6	5	42000	4	-109632(38,29,8,1,0,0,0,0,0,0)	70	213200000000002	
303	6	5	42000	4	-78144(39,31,7,1,0,0,0,0,0,0)	70	213200000000003	
304	6	5	42000	4	-75744(37,27,9,1,0,0,0,0,0,0)	70	213300000000001	
305	6	5	42000	4	-170304(39,31,7,1,0,0,0,0,0,0)	70	213300000000002	
306	6	5	42000	4	-170864(40,33,6,1,0,0,0,0,0,0)	70	213300000000003	
307	6	5	42000	4	-44160(34,21,12,1,0,0,0,0,0,0)	70	321100000000001	
308	6	5	42000	4	-100608(36,25,10,1,0,0,0,0,0,0)	70	321100000000002	
309	6	5	42000	4	-72384(37,27,9,1,0,0,0,0,0,0)	70	321100000000003	
310	6	5	42000	4	-165792(36,25,10,1,0,0,0,0,0,0)	70	321200000000001	
311	6	5	42000	4	-375360(38,29,8,1,0,0,0,0,0,0)	70	321200000000002	
312	6	5	42000	4	-269088(39,31,7,1,0,0,0,0,0,0)	70	321200000000003	
313	6	5	42000	4	-148512(37,27,9,1,0,0,0,0,0,0)	70	321300000000001	
314	6	5	42000	4	-334656(39,31,7,1,0,0,0,0,0,0)	70	321300000000002	
315	6	5	42000	4	-238464(40,33,6,1,0,0,0,0,0,0)	70	321300000000003	
316	6	5	42000	4	-22752(35,23,11,1,0,0,0,0,0,0)	70	222100000000001	
317	6	5	42000	4	-51648(37,27,9,1,0,0,0,0,0,0)	70	222100000000002	
318	6	5	42000	4	-37344(38,29,8,1,0,0,0,0,0,0)	70	222100000000003	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
319	6	5	42000	4	-122304(37,27,9,1,0,0,0,0,0,0)	70	22220000000000	
320	6	5	42000	4	-275904(39,31,7,1,0,0,0,0,0,0)	70	22220000000000	
321	6	5	42000	4	-198048(40,33,6,1,0,0,0,0,0,0)	70	22220000000000	
322	6	5	42000	4	-127776(38,29,8,1,0,0,0,0,0,0)	70	22230000000000	
323	6	5	42000	4	-286848(40,33,6,1,0,0,0,0,0,0)	70	22230000000000	
324	6	5	42000	4	-204960(41,35,5,1,0,0,0,0,0,0)	70	22230000000000	
325	6	6	33000	72	-366768(32,20,8,4,0,0,0,0,0,0)	64	21100000020000	
326	6	6	33000	72	-1648512(34,23,8,3,0,0,0,0,0,0)	66	32100000020000	
327	6	6	33000	72	-1823904(36,26,8,2,0,0,0,0,0,0)	68	32100000030000	
328	6	6	33000	72	-566784(35,25,7,3,0,0,0,0,0,0)	66	22200000020000	
329	6	6	33000	72	-1256256(37,28,7,2,0,0,0,0,0,0)	68	22200000030000	
330	6	6	33000	72	-214848(38,30,6,2,0,0,0,0,0,0)	68	22200000020000	
331	6	5	33000	12	-30672(32,18,12,2,0,0,0,0,0,0)	68	11000000020000	
332	6	5	33000	12	-69408(34,21,12,1,0,0,0,0,0,0)	70	11000000030000	
333	6	5	33000	12	-23904(35,23,11,1,0,0,0,0,0,0)	70	11000000020000	
334	6	5	33000	12	-275904(34,22,10,2,0,0,0,0,0,0)	68	21000000020000	
335	6	5	33000	12	-617472(36,25,10,1,0,0,0,0,0,0)	70	21000000030000	
336	6	5	33000	12	-211968(37,27,9,1,0,0,0,0,0,0)	70	21000000020000	
337	6	5	33000	12	-297216(35,24,9,2,0,0,0,0,0,0)	68	31000000020000	
338	6	5	33000	12	-656064(37,27,9,1,0,0,0,0,0,0)	70	31000000030000	
339	6	5	33000	12	-226368(38,29,8,1,0,0,0,0,0,0)	70	31000000020000	
340	6	5	33000	12	-527040(36,26,8,2,0,0,0,0,0,0)	68	22000000020000	
341	6	5	33000	12	-1169280(38,29,8,1,0,0,0,0,0,0)	70	22000000030000	
342	6	5	33000	12	-400896(39,31,7,1,0,0,0,0,0,0)	70	22000000020000	
343	6	5	33000	12	-9573(37,28,7,2,0,0,0,0,0,0)	68	32000000020000	
344	6	5	33000	12	-2105856(39,31,7,1,0,0,0,0,0,0)	70	32000000030000	
345	6	5	33000	12	-723456(40,33,6,1,0,0,0,0,0,0)	70	32000000020000	
346	6	5	33000	12	-388224(38,30,6,2,0,0,0,0,0,0)	68	33000000020000	
347	6	5	33000	12	-848736(40,33,6,1,0,0,0,0,0,0)	70	33000000030000	
348	6	5	33000	12	-292704(41,35,5,1,0,0,0,0,0,0)	70	33000000020000	
349	6	5	51000	4	-13536(36,26,8,2,0,0,0,0,0,0)	68	21120020000000	
350	6	5	51000	4	-57792(37,28,7,2,0,0,0,0,0,0)	68	21130020000000	
351	6	5	51000	4	-44640(38,30,6,2,0,0,0,0,0,0)	68	21130030000000	
352	6	5	51000	4	-14392(38,29,8,1,0,0,0,0,0,0)	70	31220020000000	
353	6	5	51000	4	-61632(39,31,7,1,0,0,0,0,0,0)	70	31230020000000	
354	6	5	51000	4	-47328(40,33,6,1,0,0,0,0,0,0)	70	31230030000000	
355	6	5	51000	4	-3744(38,30,6,2,0,0,0,0,0,0)	68	11230030000000	
356	6	5	51000	4	-15552(39,31,7,1,0,0,0,0,0,0)	70	21330020000000	
357	6	5	51000	4	-23808(40,33,6,1,0,0,0,0,0,0)	70	21330030000000	
358	6	5	51000	4	-13824(36,25,10,1,0,0,0,0,0,0)	70	32120010000000	
359	6	5	51000	4	-28992(37,27,9,1,0,0,0,0,0,0)	70	32130010000000	
360	6	5	51000	4	-80928(38,29,8,1,0,0,0,0,0,0)	70	32120020000000	
361	6	5	51000	4	-213888(39,31,7,1,0,0,0,0,0,0)	70	32130020000000	
362	6	5	51000	4	-117504(40,33,6,1,0,0,0,0,0,0)	70	32130030000000	
363	6	5	51000	4	-7488(38,29,8,1,0,0,0,0,0,0)	70	22230012000000	
364	6	5	51000	4	-30144(39,31,7,1,0,0,0,0,0,0)	70	22220020000000	
365	6	5	51000	4	-117792(40,33,6,1,0,0,0,0,0,0)	70	22230020000000	
366	6	5	51000	4	-80544(41,35,5,1,0,0,0,0,0,0)	70	22230030000000	
367	6	5	51000	2	-3024(32,18,12,2,0,0,0,0,0,0)	68	21110000010000	
368	6	5	51000	2	-13248(34,22,10,2,0,0,0,0,0,0)	68	21110000020000	
369	6	5	51000	2	-14016(35,24,9,2,0,0,0,0,0,0)	68	21110000030000	
370	6	5	51000	2	-26208(34,22,10,2,0,0,0,0,0,0)	68	21120000010000	
371	6	5	51000	2	-95232(36,26,8,2,0,0,0,0,0,0)	68	21120000020000	
372	6	5	51000	2	-813(37,28,7,2,0,0,0,0,0,0)	68	21120000030000	
373	6	5	51000	2	-99360(38,30,6,2,0,0,0,0,0,0)	68	21130000030000	
374	6	5	51000	2	-41472(35,24,9,2,0,0,0,0,0,0)	68	21130000010000	
375	6	5	51000	2	-125088(37,28,7,2,0,0,0,0,0,0)	68	21130000020000	
376	6	5	51000	2	-3312(34,21,12,1,0,0,0,0,0,0)	70	31210000010000	
377	6	5	51000	2	-14400(36,25,10,1,0,0,0,0,0,0)	70	31210000020000	
378	6	5	51000	2	-15168(37,27,9,1,0,0,0,0,0,0)	70	31210000030000	
379	6	5	51000	2	-28416(36,25,10,1,0,0,0,0,0,0)	70	31220000010000	
380	6	5	51000	2	-98880(38,29,8,1,0,0,0,0,0,0)	70	31220000020000	
381	6	5	51000	2	-87360(39,31,7,1,0,0,0,0,0,0)	70	31220000030000	
382	6	5	51000	2	-44496(37,27,9,1,0,0,0,0,0,0)	70	31230000010000	
383	6	5	51000	2	-133872(39,31,7,1,0,0,0,0,0,0)	70	31230000020000	
384	6	5	51000	2	-94272(40,33,6,1,0,0,0,0,0,0)	70	31230000030000	
385	6	5	51000	2	-3312(34,22,10,2,0,0,0,0,0,0)	68	11220000010000	
386	6	5	51000	2	-12456(36,26,8,2,0,0,0,0,0,0)	68	11220000020000	
387	6	5	51000	2	-11184(37,28,7,2,0,0,0,0,0,0)	68	11220000030000	
388	6	5	51000	2	-27074(38,30,6,2,0,0,0,0,0,0)	68	11230000030000	
389	6	5	51000	2	-10512(35,24,9,2,0,0,0,0,0,0)	68	11230000010000	
390	6	5	51000	2	-33552(37,28,7,2,0,0,0,0,0,0)	68	11230000020000	
391	6	5	51000	2	-14400(36,25,10,1,0,0,0,0,0,0)	70	21320000010000	
392	6	5	51000	2	-53760(38,29,8,1,0,0,0,0,0,0)	70	21320000020000	
393	6	5	51000	2	-48000(39,31,7,1,0,0,0,0,0,0)	70	21320000030000	
394	6	5	51000	2	-33552(37,27,9,1,0,0,0,0,0,0)	70	21330000010000	
395	6	5	51000	2	-98736(39,31,7,1,0,0,0,0,0,0)	70	21330000020000	
396	6	5	51000	2	-77808(40,33,6,1,0,0,0,0,0,0)	70	21330000030000	
397	6	5	51000	2	-6624(34,21,12,1,0,0,0,0,0,0)	70	32110000010000	
398	6	5	51000	2	-28800(36,25,10,1,0,0,0,0,0,0)	70	32110000020000	
399	6	5	51000	2	-30336(37,27,9,1,0,0,0,0,0,0)	70	32110000030000	
400	6	5	51000	2	-49440(36,25,10,1,0,0,0,0,0,0)	70	32120000010000	
401	6	5	51000	2	-170160(38,29,8,1,0,0,0,0,0,0)	70	32120000020000	
402	6	5	51000	2	-142368(39,31,7,1,0,0,0,0,0,0)	70	32120000030000	
403	6	5	51000	2	-66096(37,27,9,1,0,0,0,0,0,0)	70	32130000010000	
404	6	5	51000	2	-187248(39,31,7,1,0,0,0,0,0,0)	70	32130000020000	
405	6	5	51000	2	-134112(40,33,6,1,0,0,0,0,0,0)	70	32130000030000	
406	6	5	51000	2	-3408(35,23,11,1,0,0,0,0,0,0)	70	22210000010000	
407	6	5	51000	2	-14784(37,27,9,1,0,0,0,0,0,0)	70	22210000020000	
408	6	5	51000	2	-15552(38,29,8,1,0,0,0,0,0,0)	70	22210000030000	
409	6	5	51000	2	-36384(37,27,9,1,0,0,0,0,0,0)	70	22220000020000	
410	6	5	51000	2	-128304(39,31,7,1,0,0,0,0,0,0)	70	22220000030000	
411	6	5	51000	2	-105504(40,33,6,1,0,0,0,0,0,0)	70	22230000030000	
412	6	5	51000	2	-124656(41,35,5,1,0,0,0,0,0,0)	70	22230000010000	
413	6	5	51000	2	-56736(38,29,8,1,0,0,0,0,0,0)	70	22230000020000	
414	6	5	51000	2	-156288(40,33,6,1,0,0,0,0,0,0)	70	22230000030000	
(6,3)	1	6	41100	48	2884608(36,28,5,2,1,0,0,0,0,0)	64	31221100000000	
	2	6	41100	48	302112(34,24,8,0,2,0,0,0,0,0)	64	11221100000000	
	3	6	41100	48	961152(36,29,3,3,1,0,0,0,0,0)	62	22211100000000	
	4	6	41100	48	3051648(37,29,6,1,1,0,0,0,0,0)	66	22231100000000	
	5	6	41100	48	763200(37,28,8,0,1,0,0,0,0,0)	68	12332100000000	
	6	6	41100	48	283200(39,32,6,0,1,0,0,0,0,0)	68	22222000000000	

GRAPH	N	L	C	SYMMETRY NUMRFR	COUNT	CODE	TERM	GRAPH MATRIX
7	6	5	41100	8	240960(36,28,4,4,0,0,0,0,0,0)	64	2112010000000000	
8	6	5	41100	8	240960(36,28,4,4,0,0,0,0,0,0)	64	1122010000000000	
9	6	5	41100	8	1134336(38,31,4,3,0,0,0,0,0,0)	66	3122010000000000	
10	6	5	41100	8	1134336(38,31,4,3,0,0,0,0,0,0)	66	2132010000000000	
11	6	5	41100	8	283200(38,30,6,2,0,0,0,0,0,0)	68	3213010000000000	
12	6	5	41100	8	1192704(39,32,5,2,0,0,0,0,0,0)	68	2223010000000000	
13	6	5	41100	8	283200(38,30,6,2,0,0,0,0,0,0)	68	1233010000000000	
14	6	5	41100	8	941568(40,34,4,2,0,0,0,0,0,0)	68	3123020000000000	
15	6	5	41100	8	957120(40,34,4,2,0,0,0,0,0,0)	68	2133020000000000	
16	6	5	41100	8	619296(40,34,4,2,0,0,0,0,0,0)	68	2222020000000000	
17	6	4	41100	4	241632(36,26,8,2,0,0,0,0,0,0)	68	2111000000000000	
18	6	4	41100	4	1115712(38,30,6,2,0,0,0,0,0,0)	68	2112000000000000	
19	6	4	41100	4	1228032(39,32,5,2,0,0,0,0,0,0)	68	2113000000000000	
20	6	4	41100	4	284256(38,29,8,1,0,0,0,0,0,0)	70	3121000000000000	
21	6	4	41100	4	1290240(40,33,6,1,0,0,0,0,0,0)	70	3122000000000000	
22	6	4	41100	4	1394880(41,35,5,1,0,0,0,0,0,0)	70	3123000000000000	
23	6	4	41100	4	142320(38,30,6,2,0,0,0,0,0,0)	68	1122000000000000	
24	6	4	41100	4	314976(39,32,5,2,0,0,0,0,0,0)	68	1123000000000000	
25	6	4	41100	4	660864(40,33,6,1,0,0,0,0,0,0)	70	2132000000000000	
26	6	4	41100	4	1055904(41,35,5,1,0,0,0,0,0,0)	70	2133000000000000	
27	6	4	41100	4	568512(38,29,8,1,0,0,0,0,0,0)	70	3211000000000000	
28	6	4	41100	4	2233440(40,33,6,1,0,0,0,0,0,0)	70	3212000000000000	
29	6	4	41100	4	2054304(41,35,5,1,0,0,0,0,0,0)	70	3213000000000000	
30	6	4	41100	4	299232(39,31,7,1,0,0,0,0,0,0)	70	2221000000000000	
31	6	4	41100	4	1683744(41,35,5,1,0,0,0,0,0,0)	70	2222000000000000	
32	6	4	32100	12	2331360(36,26,8,2,0,0,0,0,0,0)	68	2110000001000000	
33	6	4	32100	12	5681664(38,30,6,2,0,0,0,0,0,0)	68	2110000002000000	
34	6	4	32100	12	4281984(39,32,5,2,0,0,0,0,0,0)	68	2110000003000000	
35	6	4	32100	12	5576832(38,29,8,1,0,0,0,0,0,0)	70	3210000001000000	
36	6	4	32100	12	13411208(40,33,6,1,0,0,0,0,0,0)	70	3210000002000000	
37	6	4	32100	12	9967104(41,35,5,1,0,0,0,0,0,0)	70	3210000003000000	
38	6	4	32100	12	1961568(39,31,7,1,0,0,0,0,0,0)	70	2220000001000000	
39	6	4	32100	12	4695264(41,35,5,1,0,0,0,0,0,0)	70	2220000002000000	
(6,4)	1	6	3	31110	36	-7200000(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
	2	6	3	31110	36	-1235952(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
	3	6	3	31110	36	-7200000(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
	4	6	3	31110	36	-7200000(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
	5	6	3	31110	36	-7200000(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
	6	6	3	31110	36	-7200000(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
	7	6	3	31110	36	-4246416(40,34,4,2,0,0,0,0,0,0)	68	2110000000000000
(7,1)	1	7	21	70000	5040	40320(26,10,9,3,3,0,0,1,0,0)	56	112122213121132231122
	2	7	19	70000	48	1152(29,15,6,6,0,1,1,0,0,0)	60	121121123232122321300
	3	7	19	70000	48	1152(29,15,6,6,0,1,1,0,0,0)	60	121121212323212321300
	4	7	19	70000	48	2304(28,13,8,4,1,1,1,0,0,0)	58	121121123223211321300
	5	7	19	70000	48	2304(28,13,8,4,1,1,1,0,0,0)	58	121121321223211321300
	6	7	18	70000	48	48(32,24,0,0,8,0,0,0,0,0)	56	110122122012222122220
	7	7	18	70000	8	384(30,17,6,3,2,2,0,0,0,0)	58	112210122321321213200
	8	7	18	70000	8	192(30,16,8,2,2,2,0,0,0,0)	60	112120213312221213300
	9	7	18	70000	8	192(30,18,4,4,2,2,0,0,0,0)	58	121210123321221212200
	10	7	19	70000	36	1728(28,12,10,2,3,0,1,0,0,0)	60	121123321221211321000
	11	7	18	70000	36	864(28,13,8,3,3,0,1,0,0,0)	58	211132312222111221000
	12	7	18	70000	36	864(29,13,11,1,3,0,1,0,0,0)	62	112213231212211322000
	13	7	18	70000	36	1728(29,14,7,6,1,0,1,0,0,0)	62	121123321223211321000
	14	7	18	70000	36	864(29,15,5,7,1,0,1,0,0,0)	62	21113231222311221000
	15	7	18	70000	36	864(30,15,8,5,1,0,1,0,0,0)	62	112213231232211322000
	16	7	18	70000	36	1728(29,14,8,4,2,0,1,0,0,0)	60	121232212212311321000
	17	7	18	70000	36	1728(29,15,6,5,2,0,1,0,0,0)	60	2112322123121221000
	18	7	18	70000	36	1728(30,15,9,3,2,0,1,0,0,0)	62	112322122223111322000
	19	7	18	70000	36	1728(29,14,8,4,2,0,1,0,0,0)	60	121232212232111321000
	20	7	17	70000	4	96(32,22,2,2,6,0,0,0,0,0)	58	112122102223013122220
	21	7	17	70000	4	48(32,20,6,0,6,0,0,0,0,0)	60	112122102223013231030
	22	7	17	70000	4	192(31,18,6,3,3,1,0,0,0,0)	60	112213213023120210220
	23	7	17	70000	4	192(31,16,10,1,3,1,0,0,0,0)	64	121123123023210210330
	24	7	17	70000	4	192(31,18,6,3,3,1,0,0,0,0)	60	112213213032210210220
	25	7	17	70000	4	192(31,18,6,3,3,1,0,0,0,0)	60	112213122032210210230
	26	7	17	70000	4	96(30,16,8,1,4,1,0,0,0,0)	60	112122213023110210320
	27	7	17	70000	4	192(30,16,8,1,4,1,0,0,0,0)	60	121212123032110210230
	28	7	17	70000	4	96(32,19,7,2,3,1,0,0,0,0)	62	112122213032220210320
	29	7	17	70000	4	192(32,19,7,2,3,1,0,0,0,0)	62	121212123023220210230
	30	7	17	70000	4	96(30,18,4,3,4,1,0,0,0,0)	58	121212212032110210220
	31	7	17	70000	4	96(32,21,3,4,3,1,0,0,0,0)	60	121212212023220210220
	32	7	17	70000	48	2304(31,17,7,5,1,0,1,0,0,0)	62	121232212212311320000
	33	7	17	70000	48	2304(31,17,7,5,1,0,1,0,0,0)	62	112322122221311320000
	34	7	17	70000	48	2304(30,15,9,3,2,0,1,0,0,0)	62	112213231212211320000
	35	7	17	70000	48	2304(30,15,9,3,2,0,1,0,0,0)	62	121123321221211320000
	36	7	17	70000	48	2304(28,12,9,4,2,0,1,0,0,0)	60	123321121221211210000
	37	7	17	70000	48	4608(30,15,9,3,2,0,1,0,0,0)	62	123321121221211320000
	38	7	17	70000	48	2304(31,17,6,7,0,0,1,0,0,0)	64	112213231232211320000
	39	7	17	70000	48	1152(31,17,7,5,1,0,1,0,0,0)	62	132122122223111320000
	40	7	17	70000	48	1152(31,17,7,5,1,0,1,0,0,0)	62	123212212232111320000
	41	7	17	70000	48	1152(30,15,9,3,2,0,1,0,0,0)	62	112211122321321320000
	42	7	17	70000	48	1152(29,13,9,5,1,0,1,0,0,0)	62	213221221231211310000
	43	7	17	70000	48	1152(30,15,8,5,1,0,1,0,0,0)	62	213221221231211220000
	44	7	17	70000	4	192(30,16,7,4,1,2,0,0,0,0)	60	112122213121300320210
	45	7	17	70000	4	192(30,16,7,4,1,2,0,0,0,0)	60	121123212112300320210
	46	7	17	70000	4	192(30,17,5,5,1,2,0,0,0,0)	60	112122213112200320210
	47	7	17	70000	4	192(30,17,5,5,1,2,0,0,0,0)	60	121123212121200320210
	48	7	17	70000	4	192(31,17,8,3,1,2,0,0,0,0)	62	112122213132200210320
	49	7	17	70000	4	192(31,17,8,3,1,2,0,0,0,0)	62	112122213132200320210
	50	7	17	70000	4	192(31,17,8,3,1,2,0,0,0,0)	62	121123212123200210320
	51	7	17	70000	4	192(31,17,8,3,1,2,0,0,0,0)	62	121123212123200320210
	52	7	17	70000	4	192(30,16,7,4,1,2,0,0,0,0)	60	112122213123100210320
	53	7	17	70000	4	192(30,16,7,4,1,2,0,0,0,0)	60	112122213123100320210
	54	7	17	70000	4	192(30,16,7,4,1,2,0,0,0,0)	60	121123212132100210320
	55	7	17	70000	4	192(30,16,7,4,1,2,0,0,0,0)	60	121123212132100320210
	56	7	17	70000	48	2304(29,13,10,3,1,2,0,0,0,0)	62	211132312031220221010
	57	7	17	70000	48	2304(30,14,10,4,0,2,0,0,0,0)	64	121123232032120321010
	58	7	17	70000	48	576(30,14,10,4,0,2,0,0,0,0)	64	121123123032120321020
	59	7	17	70000	48	1152(28,12,10,2,2,2,0,0,0,0)	60	211132312022110221010
	60	7	17	70000	48	2304(29		

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH	MATRIX
62	7	17	70000	48	1152(31,16,9,4,0,2,0,0,0)	64	211132223031270221020		
63	7	17	70000	48	2304(30,15,9,3,1,2,0,0,0)	62	211223312022120221010		
64	7	17	70000	48	1152(28,12,10,2,2,2,0,0,0)	60	211312312022110221010		
65	7	17	70000	48	2304(31,16,9,4,0,2,0,0,0)	64	121232232021220321010		
66	7	17	70000	48	2304(29,13,10,3,1,2,0,0,0)	62	211223312031210221010		
67	7	17	70000	48	1152(30,14,10,4,0,2,0,0,0)	64	121232232032110321010		
68	7	17	70000	48	576(32,18,8,4,0,2,0,0,0)	64	211223223022120221020		
69	7	17	70000	12	144(32,20,4,6,0,2,0,0,0)	62	110122122223311233000		
70	7	17	70000	8	192(31,18,5,5,2,1,0,0,0)	62	211223132110032132002		
71	7	17	70000	8	384(32,18,8,3,2,1,0,0,0)	64	211132223120032132003		
72	7	17	70000	8	192(32,17,10,2,2,1,0,0,0)	66	121123232120032232002		
73	7	16	70000	2	96(33,22,3,4,4,0,0,0,0)	62	112230122021320102320		
74	7	16	70000	2	48(32,20,4,4,4,0,0,0,0)	62	112120231021330102230		
75	7	16	70000	2	96(33,20,7,2,4,0,0,0,0)	64	112120231021330203320		
76	7	16	70000	2	96(32,20,4,5,2,1,0,0,0)	62	112122230010223213100		
77	7	16	70000	2	48(34,23,3,6,1,1,0,0,0)	64	112122230010223322200		
78	7	16	70000	2	96(30,17,4,6,2,1,0,0,0)	62	123121120010322212100		
79	7	16	70000	2	96(31,18,4,7,1,1,0,0,0)	64	112231120010232322100		
80	7	16	70000	2	96(31,17,7,4,2,1,0,0,0)	62	123121120020232212100		
81	7	16	70000	2	96(32,18,7,5,1,1,0,0,0)	64	112231120020323322100		
82	7	16	70000	2	192(32,19,6,4,2,1,0,0,0)	62	123121230010323212100		
83	7	16	70000	2	192(33,20,6,5,1,1,0,0,0)	64	112231230010233212100		
84	7	16	70000	2	96(32,18,8,3,2,1,0,0,0)	64	123121230020232212100		
85	7	16	70000	2	96(33,19,8,4,1,1,0,0,0)	66	112231230020322322100		
86	7	16	70000	2	96(33,20,6,5,1,1,0,0,0)	64	112231230010233213200		
87	7	16	70000	2	96(31,17,6,6,1,1,0,0,0)	64	213221130010232312100		
88	7	16	70000	2	96(32,19,5,6,1,1,0,0,0)	64	222131130010322222100		
89	7	16	70000	2	96(32,17,9,4,1,1,0,0,0)	66	21322113002032312100		
90	7	16	70000	2	96(33,19,8,4,1,1,0,0,0)	66	222131130020233222100		
91	7	16	70000	2	96(32,18,7,5,1,1,0,0,0)	64	213221220010233312100		
92	7	16	70000	2	96(33,20,6,5,1,1,0,0,0)	64	22213122001032322100		
93	7	16	70000	2	96(32,17,9,4,1,1,0,0,0)	66	213221220020322312100		
94	7	16	70000	2	96(33,19,8,4,1,1,0,0,0)	66	222131220020232222100		
95	7	16	70000	2	48(33,23,2,3,5,0,0,0,0)	60	112122120210222322000		
96	7	16	70000	2	96(32,20,5,2,5,0,0,0,0)	60	112122120220313231000		
97	7	16	70000	2	96(33,21,6,1,5,0,0,0,0)	62	112122120220313322000		
98	7	16	70000	2	48(32,21,3,3,5,0,0,0,0)	60	112122230120312122000		
99	7	16	70000	2	96(32,20,5,2,5,0,0,0,0)	60	112122230120312231000		
100	7	16	70000	2	48(33,21,6,1,5,0,0,0,0)	62	112122230120312322000		
101	7	16	70000	8	384(31,17,7,4,2,1,0,0,0)	62	211223132110032221000		
102	7	16	70000	8	384(31,16,9,3,2,1,0,0,0)	64	121232123110032321000		
103	7	16	70000	8	384(32,18,8,3,2,1,0,0,0)	64	211132223120032221000		
104	7	16	70000	8	384(32,17,10,2,2,1,0,0,0)	66	121123232120032321000		
105	7	16	70000	8	192(31,18,5,5,2,1,0,0,0)	62	211223132120021221000		
106	7	16	70000	8	384(31,17,7,4,2,1,0,0,0)	62	211132223130021221000		
107	7	16	70000	8	192(31,16,9,3,2,1,0,0,0)	64	121123232130021321000		
108	7	16	70000	6	144(32,19,6,5,0,2,0,0,0)	62	123121121210322320000		
109	7	16	70000	6	288(32,19,6,5,0,2,0,0,0)	62	112231122120321230000		
110	7	16	70000	6	288(32,19,6,5,0,2,0,0,0)	62	112231122120321320000		
111	7	16	70000	6	144(32,19,6,5,0,2,0,0,0)	62	112122231130221230000		
112	7	16	70000	6	144(32,19,6,5,0,2,0,0,0)	62	112122231130221320000		
113	7	16	70000	120	2880(32,18,8,4,1,0,1,0,0)	64	132122122223111300000		
114	7	16	70000	120	5760(30,14,11,2,2,0,1,0,0)	64	213312112222111200000		
115	7	16	70000	120	11520(31,16,10,2,2,0,1,0,0)	64	213312112222111300000		
116	7	16	70000	120	2880(31,16,8,6,0,0,1,0,0)	64	112213231232211200000		
117	7	16	70000	120	5760(32,18,7,6,0,0,1,0,0)	64	112213231232211300000		
118	7	16	70000	120	5760(31,16,9,4,1,0,1,0,0)	64	123212212232111200000		
119	7	16	70000	120	8640(32,18,8,4,1,0,1,0,0)	64	123212212232111300000		
120	7	16	70000	120	2880(31,16,10,2,2,0,1,0,0)	64	112213231212211300000		
121	7	16	70000	120	2880(31,16,9,4,1,0,1,0,0)	64	222113131222211200000		
122	7	16	70000	120	5760(32,18,8,4,1,0,1,0,0)	64	222113131222211300000		
123	7	16	70000	4	48(32,20,4,4,4,0,0,0,0)	62	110122122023301233010		
124	7	16	70000	4	96(34,24,2,4,4,0,0,0,0)	62	110233122012202233010		
125	7	16	70000	4	96(34,22,6,2,4,0,0,0,0)	64	110233122023301233010		
126	7	16	70000	4	192(31,16,9,3,2,1,0,0,0)	64	112213213023120320100		
127	7	16	70000	4	192(32,17,10,2,2,1,0,0,0)	66	121123123032120320200		
128	7	16	70000	4	192(31,16,9,3,2,1,0,0,0)	64	112213213032210320100		
129	7	16	70000	4	192(32,17,10,2,2,1,0,0,0)	66	121123123032210320200		
130	7	16	70000	4	192(31,17,7,4,2,1,0,0,0)	62	112213122023120320100		
131	7	16	70000	4	192(32,18,8,3,2,1,0,0,0)	64	112213322032210210200		
132	7	16	70000	4	192(31,17,7,4,2,1,0,0,0)	62	112213122032210320100		
133	7	16	70000	4	192(32,18,8,3,2,1,0,0,0)	64	112213322023120210200		
134	7	16	70000	4	192(32,17,10,2,2,1,0,0,0)	66	112213322023120320100		
135	7	16	70000	4	192(33,18,11,1,2,1,0,0,0)	68	121123232023210320200		
136	7	16	70000	4	192(32,17,10,2,2,1,0,0,0)	66	112213322023210320100		
137	7	16	70000	4	192(31,16,9,3,2,1,0,0,0)	64	112213231032210320100		
138	7	16	70000	4	192(31,16,10,1,3,1,0,0,0)	64	112122213023110320200		
139	7	16	70000	4	192(30,15,9,2,3,1,0,0,0)	62	121212123032110320100		
140	7	16	70000	4	192(33,19,9,2,2,1,0,0,0)	66	112122213032220320200		
141	7	16	70000	4	192(32,18,8,3,2,1,0,0,0)	64	121212123023220320100		
142	7	16	70000	4	192(31,17,8,2,3,1,0,0,0)	62	121212232032110210200		
143	7	16	70000	4	192(30,16,7,3,3,1,0,0,0)	60	121212212032110320100		
144	7	16	70000	4	192(33,20,7,3,2,1,0,0,0)	64	121212232023220210200		
145	7	16	70000	4	192(32,19,6,4,2,1,0,0,0)	62	121212212023220320100		
146	7	16	70000	4	96(32,17,11,0,3,1,0,0,0)	66	112122232023110320200		
147	7	16	70000	4	192(31,16,10,1,3,1,0,0,0)	64	121212232032110320100		
148	7	16	70000	4	96(34,20,10,1,2,1,0,0,0)	68	112122232032220320200		
149	7	16	70000	4	192(33,19,9,2,2,1,0,0,0)	66	121212232023220320100		
150	7	16	70000	4	96(30,15,9,2,3,1,0,0,0)	62	121212321032110320100		
151	7	16	70000	4	96(32,18,8,3,2,1,0,0,0)	64	121212321023220320100		
152	7	16	70000	16	384(32,20,4,4,4,0,0,0,0)	62	110233233012210122010		
153	7	16	70000	16	384(32,18,8,2,4,0,0,0,0)	64	210223223013210132010		
154	7	16	70000	16	192(32,16,12,0,4,0,0,0,0)	68	220133133022210222010		
155	7	16	70000	4	192(31,17,7,4,2,1,0,0,0)	62	12112023201230321010		
156	7	16	70000	4	192(31,17,7,4,2,1,0,0,0)	62	121120232021230321010		
157	7	16	70000	4	192(30,15,9,2,3,1,0,0,0)	62	121230123012310212010		
158	7	16	70000	4	192(31,16,9,3,2,1,0,0,0)	64	112320213021310322010		
159	7	16	70000	4	192(31,16,9,3,2,1,0,0,0)	64	121230123012310321020		
160	7	16	70000	4	192(31,17,8,2,3,1,0,0,0)	62	121230123021220212010		
161	7	16	70000	4	192(32,18,8,3,2,1,0,0,0)	64	112320213012220322010		
162	7	16	70000	4	192(32,18,8,3,2,1,0,0,0)	64	121230123021220321020		
163	7	16	70000	4	192(32,18,8,3,2,1,0,0,0)	64	121230232012310212020		
164	7	16	70000	4	192(30,15,9,2,3,1,0,0,0)	62	121230212012310321010		

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COOE	TERM	GRAPH MATRIX
165	7	16	70000	4	192(33,20,7,3,2,1,0,0,0,0)	64	121230232021220212020	
166	7	16	70000	4	192(31,17,8,2,3,1,0,0,0,0)	62	121230212021220321010	
167	7	16	70000	4	192(31,16,9,3,2,1,0,0,0,0)	64	121230232012310321010	
168	7	16	70000	4	192(32,18,8,3,2,1,0,0,0,0)	64	121230232021220321010	
169	7	16	70000	4	192(31,16,9,3,2,1,0,0,0,0)	64	121210232012330321010	
170	7	16	70000	4	192(31,18,5,5,2,1,0,0,0,0)	62	121210232021220321010	
171	7	16	70000	4	192(31,16,10,1,3,1,0,0,0,0)	64	121320123012320212010	
172	7	16	70000	4	192(32,17,10,2,2,1,0,0,0,0)	66	112230213021320322010	
173	7	16	70000	4	192(32,17,10,2,2,1,0,0,0,0)	66	121320123012320321020	
174	7	16	70000	4	192(30,16,7,3,3,1,0,0,0,0)	60	121320123021210212010	
175	7	16	70000	4	192(31,17,7,4,2,1,0,0,0,0)	62	112230213012210322010	
176	7	16	70000	4	192(31,17,7,4,2,1,0,0,0,0)	62	121320123021210321020	
177	7	16	70000	4	192(33,19,9,2,2,1,0,0,0,0)	66	121320232012320212020	
178	7	16	70000	4	192(31,16,10,1,3,1,0,0,0,0)	64	121320212012320321010	
179	7	16	70000	4	192(32,19,6,4,2,1,0,0,0,0)	62	121320232021210212020	
180	7	16	70000	4	192(30,16,7,3,3,1,0,0,0,0)	60	121320212021210321010	
181	7	16	70000	4	192(32,17,10,2,2,1,0,0,0,0)	66	121320232012320321010	
182	7	16	70000	4	192(31,17,7,4,2,1,0,0,0,0)	62	121320232021210321010	
183	7	16	70000	8	384(30,16,6,6,0,2,0,0,0,0)	62	112211210023120322100	
184	7	16	70000	8	192(30,16,6,6,0,2,0,0,0,0)	62	112211120032210322100	
185	7	16	70000	8	192(30,16,6,6,0,2,0,0,0,0)	62	112211210032210322100	
186	7	16	70000	8	384(32,19,6,5,0,2,0,0,0,0)	62	112211230012230322100	
187	7	16	70000	8	384(32,19,6,5,0,2,0,0,0,0)	62	112211230021320322100	
188	7	16	70000	8	768(32,19,6,5,0,2,0,0,0,0)	62	112211320023120322100	
189	7	16	70000	8	384(32,19,6,5,0,2,0,0,0,0)	62	112211230032210322100	
190	7	16	70000	8	384(32,19,6,5,0,2,0,0,0,0)	62	112211320021320322100	
191	7	16	70000	8	384(32,19,6,5,0,2,0,0,0,0)	62	112211320012230322100	
192	7	16	70000	8	384(32,19,6,5,0,2,0,0,0,0)	62	112211320032210322100	
193	7	16	70000	4	48(34,22,4,6,2,0,0,0,0,0)	66	22022222013310022220	
194	7	15	70000	24	576(30,14,10,4,0,2,0,0,0,0)	64	321212121110000032210	
195	7	15	70000	24	1152(30,14,10,4,0,2,0,0,0,0)	64	231112221110000032210	
196	7	15	70000	24	576(30,14,10,4,0,2,0,0,0,0)	64	121212321110000032210	
197	7	15	70000	24	2304(32,18,8,4,0,2,0,0,0,0)	64	321212121120000032210	
198	7	15	70000	24	4608(32,18,8,4,0,2,0,0,0,0)	64	231112221120000032210	
199	7	15	70000	24	2204(32,18,8,4,0,2,0,0,0,0)	64	121212321120000032210	
200	7	15	70000	24	2304(33,20,7,4,0,2,0,0,0,0)	64	321212121130000032210	
201	7	15	70000	24	4608(33,20,7,4,0,2,0,0,0,0)	64	231112221130000032210	
202	7	15	70000	24	2304(33,20,7,4,0,2,0,0,0,0)	64	121212321130000032210	
203	7	15	70000	12	576(30,15,8,4,2,1,0,0,0,0)	62	211221132120001032100	
204	7	15	70000	12	576(30,16,6,5,2,1,0,0,0,0)	62	222111131220001022100	
205	7	15	70000	12	576(30,15,8,4,2,1,0,0,0,0)	62	211221112320001032100	
206	7	15	70000	12	576(31,16,9,3,2,1,0,0,0,0)	64	121212123120001032200	
207	7	15	70000	12	576(30,15,8,4,2,1,0,0,0,0)	62	32112112220001032100	
208	7	15	70000	12	576(30,16,6,5,2,1,0,0,0,0)	62	312211122120001022100	
209	7	15	70000	12	576(30,15,8,4,2,1,0,0,0,0)	62	121321121220001032100	
210	7	15	70000	12	576(31,16,9,3,2,1,0,0,0,0)	64	231112112220001032200	
211	7	15	70000	12	1152(32,18,8,3,2,1,0,0,0,0)	64	211221132130002032100	
212	7	15	70000	12	1152(32,19,6,4,2,1,0,0,0,0)	62	222111131230002022100	
213	7	15	70000	12	1152(32,18,8,3,2,1,0,0,0,0)	64	211221112330002032100	
214	7	15	70000	12	1152(33,19,9,2,2,1,0,0,0,0)	66	121212123130002032200	
215	7	15	70000	12	1152(32,18,8,3,2,1,0,0,0,0)	64	321121121230002032100	
216	7	15	70000	12	1152(32,19,6,4,2,1,0,0,0,0)	62	312211122130002022100	
217	7	15	70000	12	1152(32,18,8,3,2,1,0,0,0,0)	64	121321121230002032100	
218	7	15	70000	12	1152(33,19,9,2,2,1,0,0,0,0)	66	231112112230002032200	
219	7	15	70000	12	576(31,16,8,5,1,1,0,0,0,0)	64	231221132120001032100	
220	7	15	70000	12	576(31,17,6,6,1,1,0,0,0,0)	64	222311131220001022100	
221	7	15	70000	12	576(31,16,8,5,1,1,0,0,0,0)	64	231221112320001032100	
222	7	15	70000	12	576(32,17,9,4,1,1,0,0,0,0)	66	321212123120001032200	
223	7	15	70000	12	1152(33,19,8,4,1,1,0,0,0,0)	66	231221132130002032100	
224	7	15	70000	12	1152(33,20,6,5,1,1,0,0,0,0)	64	222311131230002022100	
225	7	15	70000	12	1152(33,19,8,4,1,1,0,0,0,0)	66	231221112330002032100	
226	7	15	70000	12	1152(34,20,9,3,1,1,0,0,0,0)	68	321212123130002032200	
227	7	15	70000	12	576(31,16,8,5,1,1,0,0,0,0)	64	321121123220001032100	
228	7	15	70000	12	576(31,17,6,6,1,1,0,0,0,0)	64	312211122320001022100	
229	7	15	70000	12	576(31,16,8,5,1,1,0,0,0,0)	64	121321123220001032100	
230	7	15	70000	12	576(32,17,9,4,1,1,0,0,0,0)	66	231112132220001032200	
231	7	15	70000	12	1152(33,19,8,4,1,1,0,0,0,0)	66	321121123230002032100	
232	7	15	70000	12	1152(33,20,6,5,1,1,0,0,0,0)	64	312211122330002022100	
233	7	15	70000	12	1152(33,19,8,4,1,1,0,0,0,0)	66	121321123230002032100	
234	7	15	70000	12	1152(34,20,9,3,1,1,0,0,0,0)	68	231112132230002032200	
235	7	15	70000	12	576(31,15,10,4,1,1,0,0,0,0)	66	121321232130001032100	
236	7	15	70000	12	576(31,16,8,5,1,1,0,0,0,0)	64	132211231230001022100	
237	7	15	70000	12	576(31,15,10,4,1,1,0,0,0,0)	66	321121212330001032100	
238	7	15	70000	12	576(32,16,11,3,1,1,0,0,0,0)	68	211312223130001032200	
239	7	15	70000	12	1152(32,17,9,4,1,1,0,0,0,0)	66	121321232120002032100	
240	7	15	70000	12	576(32,18,7,5,1,1,0,0,0,0)	64	132211231220002022100	
241	7	15	70000	12	576(33,18,10,3,1,1,0,0,0,0)	68	211312223120002032200	
242	7	15	70000	12	288(32,18,7,5,1,1,0,0,0,0)	64	222311222130001022100	
243	7	15	70000	12	576(32,17,9,4,1,1,0,0,0,0)	66	231221221230001032100	
244	7	15	70000	12	288(33,18,10,3,1,1,0,0,0,0)	68	321212212230001032200	
245	7	15	70000	12	576(33,20,6,5,1,1,0,0,0,0)	64	222311222120002022100	
246	7	15	70000	12	1152(33,19,8,4,1,1,0,0,0,0)	66	231221221220002032100	
247	7	15	70000	12	576(34,20,9,3,1,1,0,0,0,0)	68	321212212220002032200	
248	7	15	70000	12	288(32,18,7,5,1,1,0,0,0,0)	64	222111222330001022100	
249	7	15	70000	12	576(32,17,9,4,1,1,0,0,0,0)	66	211221223230001032100	
250	7	15	70000	12	288(33,18,10,3,1,1,0,0,0,0)	68	121212232230001032200	
251	7	15	70000	8	192(33,18,9,5,0,1,0,0,0,0)	68	231132221130020032002	
252	7	15	70000	8	384(34,20,8,5,0,1,0,0,0,0)	68	321123212130020032003	
253	7	15	70000	8	192(33,18,9,5,0,1,0,0,0,0)	68	231132112230020032002	
254	7	15	70000	1	48(34,21,6,5,2,0,0,0,0,0)	66	222220311010330013320	
255	7	15	70000	1	48(34,20,8,4,2,0,0,0,0,0)	68	222220311010330022230	
256	7	15	70000	1	48(34,21,6,5,2,0,0,0,0,0)	66	222220311020220013320	
257	7	15	70000	6	48(35,25,3,7,1,0,0,0,0,0)	68	22220222022200022220	
258	7	15	70000	6	288(34,19,11,2,1,1,0,0,0,0)	70	321212123130000032203	
259	7	15	70000	6	144(35,21,10,2,1,1,0,0,0,0)	70	321212212230000032203	
260	7	15	70000	2	48(35,22,6,6,1,0,0,0,0,0)	68	22031022201332002220	
261	7	15	70000	24	2304(30,15,8,4,2,1,0,0,0,0)	62	123212121132000210001	
262	7	15	70000	24	1152(28,11,11,2,3,1,0,0,0,0)	62	132122211112000210001	
26								

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
268	7	15	70000	24	576(31,15,11,2,2,1,0,0,0,0)	66	121212321123000320001	
269	7	15	70000	24	2304(31,16,8,5,1,1,0,0,0,0)	64	132122731132000210001	
270	7	15	70000	24	1152(29,12,11,3,2,1,0,0,0,0)	64	123212321112000210001	
271	7	15	70000	24	2304(32,17,9,4,1,1,0,0,0,0)	66	132122231123000210002	
272	7	15	70000	24	2304(32,17,9,4,1,1,0,0,0,0)	66	123212321123000210002	
273	7	15	70000	24	2304(32,16,11,3,1,1,0,0,0,0)	68	123212321123000320001	
274	7	15	70000	24	2304(31,16,8,5,1,1,0,0,0,0)	64	123212321132000210001	
275	7	15	70000	24	1152(31,15,11,2,2,1,0,0,0,0)	66	121123212123000320001	
276	7	15	70000	24	576(33,18,10,3,1,1,0,0,0,0)	68	123212212223000320001	
277	7	15	70000	24	2304(30,13,11,4,1,1,0,0,0,0)	66	213312221122000310001	
278	7	15	70000	24	576(30,12,13,3,1,1,0,0,0,0)	68	213312221113000310002	
279	7	15	70000	24	576(32,16,11,3,1,1,0,0,0,0)	68	213312221122000220002	
280	7	15	70000	24	1152(31,15,10,4,1,1,0,0,0,0)	66	222222131122000310001	
281	7	15	70000	24	576(31,14,12,3,1,1,0,0,0,0)	68	222222311113000310002	
282	7	15	70000	24	576(33,18,10,3,1,1,0,0,0,0)	68	222222311122000220002	
283	7	15	70000	24	1152(31,15,10,4,1,1,0,0,0,0)	66	222222311122000310001	
284	7	15	70000	4	192(33,20,7,2,4,0,0,0,0,0)	64	112210213232200320100	
285	7	15	70000	4	192(34,21,8,1,4,0,0,0,0,0)	66	121120123223200320200	
286	7	15	70000	4	192(32,19,6,3,4,0,0,0,0,0)	62	112210213223100320100	
287	7	15	70000	4	192(33,20,7,2,4,0,0,0,0,0)	64	112210122332200320100	
288	7	15	70000	4	96(34,20,10,0,4,0,0,0,0,0)	68	112120213332200320200	
289	7	15	70000	4	192(33,19,9,1,4,0,0,0,0,0)	66	121210123323200320100	
290	7	15	70000	4	96(32,18,8,2,4,0,0,0,0,0)	64	121210123332100320100	
291	7	15	70000	4	96(34,22,6,2,4,0,0,0,0,0)	64	112120122232200320200	
292	7	15	70000	4	192(33,21,5,3,4,0,0,0,0,0)	62	121210212223200320100	
293	7	15	70000	4	96(32,20,4,4,4,0,0,0,0,0)	62	121210212232100320100	
294	7	15	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	112213231232200320000	
295	7	15	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	121123321223200320000	
296	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	112213231223100320000	
297	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	121123321232100320000	
298	7	15	70000	4	192(33,19,9,2,2,1,0,0,0,0)	66	112122231132200320000	
299	7	15	70000	4	192(33,19,9,2,2,1,0,0,0,0)	66	121212321123200320000	
300	7	15	70000	4	192(32,18,8,3,2,1,0,0,0,0)	64	112122231123100320000	
301	7	15	70000	4	192(32,18,8,3,2,1,0,0,0,0)	64	121212321132100320000	
302	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	112322231121300320000	
303	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	121232321112300320000	
304	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	112322231112200320000	
305	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	121232321121200320000	
306	7	15	70000	4	192(32,17,9,4,1,1,0,0,0,0)	66	112322231132200210000	
307	7	15	70000	4	384(34,20,9,3,1,1,0,0,0,0)	68	112322231132200320000	
308	7	15	70000	4	192(32,17,9,4,1,1,0,0,0,0)	66	121232321123200210000	
309	7	15	70000	4	384(34,20,9,3,1,1,0,0,0,0)	68	121232321123200320000	
310	7	15	70000	4	192(31,16,8,5,1,1,0,0,0,0)	64	112322231123100210000	
311	7	15	70000	4	384(33,19,8,4,1,1,0,0,0,0)	66	112322231123100320000	
312	7	15	70000	4	192(31,16,8,5,1,1,0,0,0,0)	64	121232321132100210000	
313	7	15	70000	4	384(33,19,8,4,1,1,0,0,0,0)	66	121232321132100320000	
314	7	15	70000	4	192(33,19,9,2,2,1,0,0,0,0)	66	112213122132200320000	
315	7	15	70000	4	192(33,19,9,2,2,1,0,0,0,0)	66	121123212123200320000	
316	7	15	70000	4	192(32,18,8,3,2,1,0,0,0,0)	64	112213122123100320000	
317	7	15	70000	4	192(32,18,8,3,2,1,0,0,0,0)	64	121123212132100320000	
318	7	15	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	112213322132200320000	
319	7	15	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	121123232123200320000	
320	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	112213322123100320000	
321	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	121123232132100320000	
322	7	15	70000	4	192(35,22,8,3,1,1,0,0,0,0)	68	112322122232200320000	
323	7	15	70000	4	192(35,22,8,3,1,1,0,0,0,0)	68	121232212223200320000	
324	7	15	70000	4	192(34,21,7,4,1,1,0,0,0,0)	66	112322122223100320000	
325	7	15	70000	4	192(34,21,7,4,1,1,0,0,0,0)	66	121232212232100320000	
326	7	15	70000	8	192(36,26,2,6,2,0,0,0,0,0)	66	123121103223003230030	
327	7	15	70000	12	96(35,24,3,6,2,0,0,0,0,0)	66	222222103010032130022	
328	7	15	70000	2	96(34,22,5,4,3,0,0,0,0,0)	64	121123120223200200032	
329	7	15	70000	2	96(33,21,4,5,3,0,0,0,0,0)	64	121212230212300100032	
330	7	15	70000	2	96(34,22,5,4,3,0,0,0,0,0)	64	121212120323200200032	
331	7	15	70000	2	48(34,21,7,3,3,0,0,0,0,0)	66	121212230223200100033	
332	7	15	70000	4	96(30,17,3,8,1,1,0,0,0,0)	64	112322211110200120002	
333	7	15	70000	4	384(32,19,5,6,1,1,0,0,0,0)	64	112322211120300120003	
334	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	112322211120300230002	
335	7	15	70000	4	96(33,20,6,5,1,1,0,0,0,0)	64	112122211320300230002	
336	7	15	70000	4	192(32,19,5,6,1,1,0,0,0,0)	64	112231211220300120003	
337	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	112231211220300230002	
338	7	15	70000	4	96(35,23,5,6,0,1,0,0,0,0)	66	112322122223000230002	
339	7	15	70000	4	192(33,20,5,7,0,1,0,0,0,0)	66	112322231120300120003	
340	7	15	70000	4	192(34,21,6,6,0,1,0,0,0,0)	66	112322231120300230002	
341	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	112122231120300230002	
342	7	15	70000	4	96(34,21,6,6,0,1,0,0,0,0)	66	112213231220300230002	
343	7	15	70000	4	192(31,17,5,8,0,1,0,0,0,0)	66	123212321110300120002	
344	7	15	70000	4	384(33,19,7,6,0,1,0,0,0,0)	66	213312221120300130003	
345	7	15	70000	4	192(32,18,6,7,0,1,0,0,0,0)	66	123212321120200120003	
346	7	15	70000	4	192(33,19,7,6,0,1,0,0,0,0)	66	213312221120300220002	
347	7	15	70000	4	96(34,21,6,6,0,1,0,0,0,0)	66	213221221220300130003	
348	7	15	70000	4	96(32,18,6,7,0,1,0,0,0,0)	66	222222311110300130002	
349	7	15	70000	4	192(33,19,7,6,0,1,0,0,0,0)	66	222222311110300220003	
350	7	15	70000	4	96(33,19,7,6,0,1,0,0,0,0)	66	222222311120200220002	
351	7	15	70000	2	48(32,20,4,4,4,0,0,0,0,0)	62	112122122020310230010	
352	7	15	70000	2	96(33,21,5,3,4,0,0,0,0,0)	62	112122122030220320010	
353	7	15	70000	2	48(34,22,6,2,4,0,0,0,0,0)	64	1121222122030220320020	
354	7	15	70000	2	96(32,20,4,4,4,0,0,0,0,0)	62	112122213010220320010	
355	7	15	70000	2	96(33,20,7,2,4,0,0,0,0,0)	64	112122213020130230020	
356	7	15	70000	2	96(32,19,6,3,4,0,0,0,0,0)	62	112122213020130320010	
357	7	15	70000	2	96(33,20,7,2,4,0,0,0,0,0)	64	112231122020320230010	
358	7	15	70000	2	96(32,19,6,3,4,0,0,0,0,0)	62	112122213020310320010	
359	7	15	70000	2	96(34,21,8,1,4,0,0,0,0,0)	66	112231122020320320020	
360	7	15	70000	2	96(33,20,7,2,4,0,0,0,0,0)	64	112122213030220320010	
361	7	15	70000	2	96(32,19,6,3,4,0,0,0,0,0)	62	112231213010230210020	
362	7	15	70000	2	96(32,18,8,2,4,0,0,0,0,0)	64	112231213010230320010	
363	7	15	70000	2	96(33,20,7,2,4,0,0,0,0,0)	64	112231213020320210020	
364	7	15	70000	2	48(32,20,4,4,4,0,0,0,0,0)	62	112231213020120210020	
365	7	15	70000	2	96(32,19,6,3,4,0,0,0,0,0)	62	112231213020120320010	
366	7	15	70000	2	48(34,20,10,0,4,0,0,0,0,0)	68	112231213020320230020	
367	7	15	70000	2	96(33,19,9,1,4,0,0,0,0,0)	66	112231213	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
371	7	15	70000	4	192(33,18,10,3,1,1,0,0,0,0)	68	121123321223200200002	
372	7	15	70000	4	192(32,16,11,3,1,1,0,0,0,0)	68	121123321223200300001	
373	7	15	70000	4	192(30,15,8,4,2,1,0,0,0,0)	62	211312221113200100002	
374	7	15	70000	4	384(32,18,8,3,2,1,0,0,0,0)	64	211312221113200200003	
375	7	15	70000	4	192(30,15,8,4,2,1,0,0,0,0)	62	211312221113200200001	
376	7	15	70000	4	384(32,18,8,3,2,1,0,0,0,0)	64	211312221113200300002	
377	7	15	70000	4	192(31,15,11,2,2,1,0,0,0,0)	66	121212321123200100003	
378	7	15	70000	4	384(32,17,10,2,2,1,0,0,0,0)	66	121212321123200200002	
379	7	15	70000	4	192(31,15,11,2,2,1,0,0,0,0)	66	121212321123200300001	
380	7	15	70000	4	192(33,19,8,4,1,1,0,0,0,0)	66	211223312113200200003	
381	7	15	70000	4	192(31,16,8,5,1,1,0,0,0,0)	64	211223312113200200001	
382	7	15	70000	4	384(33,19,8,4,1,1,0,0,0,0)	66	211223312113200300002	
383	7	15	70000	4	192(33,18,10,3,1,1,0,0,0,0)	68	121232321123200200002	
384	7	15	70000	4	192(32,16,11,3,1,1,0,0,0,0)	68	121232321123200300001	
385	7	15	70000	4	192(30,15,8,4,2,1,0,0,0,0)	62	211132221113200200001	
386	7	15	70000	4	384(32,18,8,3,2,1,0,0,0,0)	64	211132221113200300002	
387	7	15	70000	4	192(32,17,10,2,2,1,0,0,0,0)	66	121123212123200200002	
388	7	15	70000	4	192(31,15,11,2,2,1,0,0,0,0)	66	121123212123200300001	
389	7	15	70000	4	192(31,16,8,5,1,1,0,0,0,0)	64	211223132113200200001	
390	7	15	70000	4	384(33,19,8,4,1,1,0,0,0,0)	66	211223132113200300002	
391	7	15	70000	4	192(33,18,10,3,1,1,0,0,0,0)	68	121123232123200200002	
392	7	15	70000	4	192(32,16,11,3,1,1,0,0,0,0)	68	121123232123200300001	
393	7	15	70000	4	192(34,21,7,4,1,1,0,0,0,0)	66	211223221213200200003	
394	7	15	70000	4	192(32,18,7,5,1,1,0,0,0,0)	64	211223221213200200001	
395	7	15	70000	4	384(34,21,7,4,1,1,0,0,0,0)	66	211223221213200300002	
396	7	15	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	121232212223200200002	
397	7	15	70000	4	192(33,18,10,3,1,1,0,0,0,0)	68	121232212223200300001	
398	7	15	70000	4	96(34,22,5,5,1,1,0,0,0,0)	64	112322122212200300002	
399	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	112322231112200200003	
400	7	15	70000	4	192(33,20,6,5,1,1,0,0,0,0)	64	112322231112200300002	
401	7	15	70000	4	192(32,19,6,4,2,1,0,0,0,0)	62	112122231112200300002	
402	7	15	70000	4	96(33,20,6,5,1,1,0,0,0,0)	64	112213231212200200003	
403	7	15	70000	4	96(33,20,6,5,1,1,0,0,0,0)	64	112213231212200300002	
404	7	15	70000	2	48(33,21,4,5,3,0,0,0,0,0)	64	112122230010223320010	
405	7	15	70000	2	96(30,16,6,4,4,0,0,0,0,0)	62	123121120010322100010	
406	7	15	70000	2	192(33,21,4,5,3,0,0,0,0,0)	64	123121120010322320020	
407	7	15	70000	2	96(33,20,6,4,3,0,0,0,0,0)	64	112231120020323230010	
408	7	15	70000	2	96(31,16,9,2,4,0,0,0,0,0)	64	112231120020323210010	
409	7	15	70000	2	192(34,21,7,3,3,0,0,0,0,0)	66	112731120020323320020	
410	7	15	70000	2	192(33,20,6,4,3,0,0,0,0,0)	64	123121230010323210020	
411	7	15	70000	2	192(33,19,8,3,3,0,0,0,0,0)	66	123121230010323320010	
412	7	15	70000	2	96(33,19,8,3,3,0,0,0,0,0)	66	112231230020322110020	
413	7	15	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	112231230020322320010	
414	7	15	70000	2	96(32,18,7,4,3,0,0,0,0,0)	64	222131130010322220010	
415	7	15	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	222131130010322310020	
416	7	15	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	213221130020323220010	
417	7	15	70000	2	96(33,17,12,1,3,0,0,0,0,0)	70	213221130020323310020	
418	7	15	70000	2	96(34,20,9,2,3,0,0,0,0,0)	68	222131220010323220020	
419	7	15	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	222131220010323310010	
420	7	15	70000	2	96(34,19,11,1,3,0,0,0,0,0)	70	213221220020322220020	
421	7	15	70000	2	96(32,16,11,2,3,0,0,0,0,0)	68	213221220020322310010	
422	7	15	70000	6	288(33,21,5,3,4,0,0,0,0,0)	62	112127302212200230100	
423	7	15	70000	6	144(34,22,6,2,4,0,0,0,0,0)	64	112122302232200120200	
424	7	15	70000	6	96(32,19,6,3,4,0,0,0,0,0)	62	112127201321300230100	
425	7	15	70000	6	288(33,20,7,2,4,0,0,0,0,0)	64	112122201332200230100	
426	7	15	70000	6	144(33,20,7,2,4,0,0,0,0,0)	64	112127302223100230100	
427	7	15	70000	6	288(34,21,8,1,4,0,0,0,0,0)	66	112122302232200230100	
428	7	15	70000	6	48(35,22,9,0,4,0,0,0,0,0)	68	112127302232200320200	
429	7	15	70000	2	96(32,19,6,4,2,1,0,0,0,0)	62	112122213110220320000	
430	7	15	70000	2	96(32,18,8,3,2,1,0,0,0,0)	64	112122213120310230000	
431	7	15	70000	2	96(32,19,8,3,2,1,0,0,0,0)	64	112122213120310320000	
432	7	15	70000	2	96(32,18,8,3,2,1,0,0,0,0)	64	112122211320310230000	
433	7	15	70000	2	96(32,18,8,3,2,1,0,0,0,0)	64	112122211320310320000	
434	7	15	70000	2	96(33,19,9,2,2,1,0,0,0,0)	66	112122213130220230000	
435	7	15	70000	2	96(33,19,9,2,2,1,0,0,0,0)	66	112122213130220320000	
436	7	15	70000	2	48(34,22,5,5,1,1,0,0,0,0)	64	112122322210220320000	
437	7	15	70000	2	96(34,21,7,4,1,1,0,0,0,0)	66	112122322220310230000	
438	7	15	70000	2	96(34,21,7,4,1,1,0,0,0,0)	66	112122322220310320000	
439	7	15	70000	2	48(35,22,8,3,1,1,0,0,0,0)	68	112122322230220230000	
440	7	15	70000	2	48(35,22,8,3,1,1,0,0,0,0)	68	112122322230220320000	
441	7	15	70000	2	96(30,15,8,4,2,1,0,0,0,0)	62	123121212110320210000	
442	7	15	70000	2	192(32,18,8,3,2,1,0,0,0,0)	64	123121212110320320000	
443	7	15	70000	2	96(30,16,6,5,2,1,0,0,0,0)	62	123121212120210120000	
444	7	15	70000	2	192(32,19,6,4,2,1,0,0,0,0)	62	123121212120210230000	
445	7	15	70000	2	96(30,16,6,5,2,1,0,0,0,0)	62	123121212120210210000	
446	7	15	70000	2	192(32,19,6,4,2,1,0,0,0,0)	62	123121212120210320000	
447	7	15	70000	2	96(33,19,9,2,2,1,0,0,0,0)	66	112231211220320230000	
448	7	15	70000	2	96(31,16,9,3,2,1,0,0,0,0)	64	112231211220320210000	
449	7	15	70000	2	192(33,19,9,2,2,1,0,0,0,0)	66	112231211220320320000	
450	7	15	70000	2	96(30,15,8,4,2,1,0,0,0,0)	62	112231211230210120000	
451	7	15	70000	2	192(32,18,8,3,2,1,0,0,0,0)	64	112231211230210230000	
452	7	15	70000	2	96(30,15,8,4,2,1,0,0,0,0)	62	112231211230210210000	
453	7	15	70000	2	192(32,18,8,3,2,1,0,0,0,0)	64	112231211230210320000	
454	7	15	70000	2	96(31,16,8,5,1,1,0,0,0,0)	64	123121321210320210000	
455	7	15	70000	2	192(33,19,8,4,1,1,0,0,0,0)	66	123121321210320320000	
456	7	15	70000	2	96(31,17,6,4,1,1,0,0,0,0)	64	123121321220210120000	
457	7	15	70000	2	192(33,20,6,5,1,1,0,0,0,0)	64	123121321220210230000	
458	7	15	70000	2	96(31,17,6,4,1,1,0,0,0,0)	64	123121321220210210000	
459	7	15	70000	2	192(33,20,6,5,1,1,0,0,0,0)	64	123121321220210320000	
460	7	15	70000	2	96(34,20,9,3,1,1,0,0,0,0)	68	112231322120320230000	
461	7	15	70000	2	96(32,17,9,4,1,1,0,0,0,0)	66	112231322120320210000	
462	7	15	70000	2	192(34,20,9,3,1,1,0,0,0,0)	68	112231322120320320000	
463	7	15	70000	2	96(31,16,8,5,1,1,0,0,0,0)	64	112231322130210120000	
464	7	15	70000	2	192(33,19,8,4,1,1,0,0,0,0)	66	112231322130210230000	
465	7	15	70000	2	96(31,16,8,5,1,1,0,0,0,0)	64	112231322130210210000	
466	7	15	70000	2	192(33,19,8,4,1,1,0,0,0,0)	66	112231322130210320000	
467	7	15	70000	2	96(33,19,8,4,1,1,0,0,0,0)	66	123121212310320320000	
468	7	15	70000	2	96(33,20,6,5,1,1,0,0,0,0)	64	123121212320210230000	
469	7	15	70000	2	96(33,20,6,5,1,1,0,0,0,0)	64	123121212320210320000	
470	7	15	70000	2	96(34,20,9,3,1,1,0,0,0,0)	68	112231213220320230000	
471	7	15	70000	2	9			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
474	7	15	70000	2	96(32,17,9,4,1,1,0,0,0,0)	66	222131311210320220000	
475	7	15	70000	2	96(31,15,10,4,1,1,0,0,0,0)	66	222131311210320310000	
476	7	15	70000	2	96(31,16,8,5,1,1,0,0,0,0)	64	222131311220210130000	
477	7	15	70000	2	192(32,18,7,5,1,1,0,0,0,0)	64	222131311220210220000	
478	7	15	70000	2	96(31,16,8,5,1,1,0,0,0,0)	64	222131311220210310000	
479	7	15	70000	2	96(33,18,10,3,1,1,0,0,0,0)	68	213221312120320220000	
480	7	15	70000	2	96(32,16,11,3,1,1,0,0,0,0)	68	213221312120320310000	
481	7	15	70000	2	96(31,15,10,4,1,1,0,0,0,0)	66	213221312130210130000	
482	7	15	70000	2	192(32,17,9,4,1,1,0,0,0,0)	66	213221312130210220000	
483	7	15	70000	2	96(31,15,10,4,1,1,0,0,0,0)	66	213221312130210310000	
484	7	15	70000	2	96(33,19,8,4,1,1,0,0,0,0)	66	222131222110320220000	
485	7	15	70000	2	96(32,17,9,4,1,1,0,0,0,0)	66	222131222110320310000	
486	7	15	70000	2	96(32,18,7,5,1,1,0,0,0,0)	64	222131222120210130000	
487	7	15	70000	2	192(33,20,6,5,1,1,0,0,0,0)	64	222131222120210220000	
488	7	15	70000	2	96(32,18,7,5,1,1,0,0,0,0)	64	222131222120210310000	
489	7	15	70000	2	96(34,20,9,3,1,1,0,0,0,0)	68	213221221220320220000	
490	7	15	70000	2	96(33,18,10,3,1,1,0,0,0,0)	68	213221221220320310000	
491	7	15	70000	2	96(32,17,9,4,1,1,0,0,0,0)	66	213221221230210130000	
492	7	15	70000	2	192(33,19,8,4,1,1,0,0,0,0)	66	213221221230210220000	
493	7	15	70000	2	96(32,17,9,4,1,1,0,0,0,0)	66	213221221230210310000	
494	7	15	70000	12	288(33,20,7,4,0,2,0,0,0,0)	64	112211122332210300000	
495	7	15	70000	12	576(32,18,8,4,0,2,0,0,0,0)	64	112211231232210200000	
496	7	15	70000	12	1152(33,20,7,4,0,2,0,0,0,0)	64	112211231232210300000	
497	7	15	70000	12	144(32,18,8,4,0,2,0,0,0,0)	64	112211322132210200000	
498	7	15	70000	12	288(33,20,7,4,0,2,0,0,0,0)	64	112211322132210300000	
499	7	15	70000	12	576(33,20,7,4,0,2,0,0,0,0)	64	121121123223210300000	
500	7	15	70000	12	288(32,18,8,4,0,2,0,0,0,0)	64	121121232123210200000	
501	7	15	70000	12	576(33,20,7,4,0,2,0,0,0,0)	64	121121232123210300000	
502	7	15	70000	12	288(32,18,8,4,0,2,0,0,0,0)	64	121121212323210200000	
503	7	15	70000	12	576(33,20,7,4,0,2,0,0,0,0)	64	121121212323210300000	
504	7	15	70000	1	48(35,25,2,5,3,0,0,0,0,0)	64	112122120232200203030	
505	7	15	70000	1	48(34,22,5,4,3,0,0,0,0,0)	64	112213120323100203030	
506	7	15	70000	1	48(33,21,4,5,3,0,0,0,0,0)	64	112213120332200102020	
507	7	15	70000	1	96(35,23,6,3,3,0,0,0,0,0)	66	112213120332200203030	
508	7	15	70000	1	48(34,22,5,4,3,0,0,0,0,0)	64	112213230212200203020	
509	7	15	70000	1	48(33,20,6,4,3,0,0,0,0,0)	64	112213230221300102030	
510	7	15	70000	1	48(34,21,7,3,3,0,0,0,0,0)	66	112213230221300203020	
511	7	15	70000	1	48(34,21,7,3,3,0,0,0,0,0)	66	112213230223100203020	
512	7	15	70000	1	48(34,21,7,3,3,0,0,0,0,0)	66	112213230232200102030	
513	7	15	70000	1	48(35,22,8,2,3,0,0,0,0,0)	68	112213230232200203020	
514	7	15	70000	2	96(34,23,4,3,4,0,0,0,0,0)	62	112213122012032302000	
515	7	15	70000	2	96(34,23,4,3,4,0,0,0,0,0)	62	112122213021032302000	
516	7	15	70000	2	96(34,23,4,3,4,0,0,0,0,0)	62	112122213021032302000	
517	7	15	70000	2	48(32,18,8,2,4,0,0,0,0,0)	64	112213213012033201000	
518	7	15	70000	2	96(34,21,8,1,4,0,0,0,0,0)	66	112213213012033302000	
519	7	15	70000	2	48(32,20,4,4,4,0,0,0,0,0)	62	112213213021022102000	
520	7	15	70000	2	48(32,20,4,4,4,0,0,0,0,0)	62	112213213021022201000	
521	7	15	70000	2	96(34,23,4,3,4,0,0,0,0,0)	62	112213213021022203000	
522	7	15	70000	2	96(34,23,4,3,4,0,0,0,0,0)	62	112213213021022302000	
523	7	15	70000	2	96(35,24,3,6,2,0,0,0,0,0)	66	121232123010032230003	
524	7	15	70000	2	48(34,22,4,6,2,0,0,0,0,0)	66	121232232010033120002	
525	7	15	70000	2	96(36,24,6,4,2,0,0,0,0,0)	68	121232232010033230003	
526	7	15	70000	4	96(34,20,8,4,2,0,0,0,0,0)	68	231221220030001023223	
527	7	15	70000	4	96(34,20,8,4,2,0,0,0,0,0)	68	222311301022000022332	
528	7	15	70000	4	48(34,20,8,4,2,0,0,0,0,0)	68	222311301031000022333	
529	7	14	70000	1	48(33,19,7,5,2,0,0,0,0,0)	66	222311103031000013202	
530	7	14	70000	1	48(34,19,10,3,2,0,0,0,0,0)	70	222311103031000022303	
531	7	14	70000	1	48(35,22,7,4,2,0,0,0,0,0)	68	222311202022000013203	
532	7	14	70000	1	48(35,21,9,3,2,0,0,0,0,0)	70	222311202022000022302	
533	7	14	70000	1	96(34,21,6,5,2,0,0,0,0,0)	66	222311202031000013202	
534	7	14	70000	1	48(35,21,9,3,2,0,0,0,0,0)	70	222311202031000022303	
535	7	14	70000	1	48(34,20,8,4,2,0,0,0,0,0)	68	222311301022000013203	
536	7	14	70000	1	48(33,19,7,5,2,0,0,0,0,0)	66	222311301031000013202	
537	7	14	70000	6	288(32,17,10,2,2,1,0,0,0,0)	66	321121121220000032100	
538	7	14	70000	6	288(32,18,8,3,2,1,0,0,0,0)	64	312211122120000022100	
539	7	14	70000	6	288(32,17,10,2,2,1,0,0,0,0)	66	121321121220000032100	
540	7	14	70000	6	288(33,18,11,1,2,1,0,0,0,0)	68	231112112220000032200	
541	7	14	70000	6	576(33,19,9,2,2,1,0,0,0,0)	66	321121121230000032100	
542	7	14	70000	6	576(33,20,7,3,2,1,0,0,0,0)	64	312211122130000022100	
543	7	14	70000	6	576(33,19,9,2,2,1,0,0,0,0)	66	121321121230000032100	
544	7	14	70000	6	576(34,20,10,1,2,1,0,0,0,0)	68	231112112230000032200	
545	7	14	70000	6	288(33,19,10,3,1,1,0,0,0,0)	68	321121123220000032100	
546	7	14	70000	6	288(33,19,8,4,1,1,0,0,0,0)	66	312211122320000022100	
547	7	14	70000	6	288(33,18,10,3,1,1,0,0,0,0)	68	121321123220000032100	
548	7	14	70000	6	288(34,19,11,2,1,1,0,0,0,0)	70	231112132220000032200	
549	7	14	70000	6	576(34,20,9,3,1,1,0,0,0,0)	68	321121123230000032100	
550	7	14	70000	6	576(34,21,7,4,1,1,0,0,0,0)	66	312211122330000022100	
551	7	14	70000	6	576(34,20,9,3,1,1,0,0,0,0)	68	121321123230000032100	
552	7	14	70000	6	576(35,21,10,2,1,1,0,0,0,0)	70	231112132230000032200	
553	7	14	70000	6	576(33,18,10,3,1,1,0,0,0,0)	68	321121212320000032100	
554	7	14	70000	6	576(33,19,8,4,1,1,0,0,0,0)	66	132211231220000022100	
555	7	14	70000	6	576(33,18,10,3,1,1,0,0,0,0)	68	121321232120000032100	
556	7	14	70000	6	576(34,19,11,2,1,1,0,0,0,0)	70	211312223120000032200	
557	7	14	70000	6	864(34,20,9,3,1,1,0,0,0,0)	68	321121212330000032100	
558	7	14	70000	6	864(34,21,7,4,1,1,0,0,0,0)	66	132211231230000022100	
559	7	14	70000	6	864(34,20,9,3,1,1,0,0,0,0)	68	121321232130000032100	
560	7	14	70000	6	864(35,21,10,2,1,1,0,0,0,0)	70	211312223130000032200	
561	7	14	70000	6	288(32,18,8,3,2,1,0,0,0,0)	64	222111131220000022100	
562	7	14	70000	6	288(32,17,10,2,2,1,0,0,0,0)	66	211221132120000032100	
563	7	14	70000	6	288(33,18,11,1,2,1,0,0,0,0)	68	121212123120000032200	
564	7	14	70000	6	288(32,17,10,2,2,1,0,0,0,0)	66	211221112320000032100	
565	7	14	70000	6	576(33,20,7,3,2,1,0,0,0,0)	64	222111131230000022100	
566	7	14	70000	6	576(33,19,9,2,2,1,0,0,0,0)	66	211221132130000032100	
567	7	14	70000	6	576(34,20,10,1,2,1,0,0,0,0)	68	121212123130000032200	
568	7	14	70000	6	576(33,19,9,2,2,1,0,0,0,0)	66	211221112330000032100	
569	7	14	70000	6	288(34,21,7,4,1,1,0,0,0,0)	66	222111222320000022100	
570	7	14	70000	6	576(34,20,9,3,1,1,0,0,0,0)	68	211221223220000032100	
571	7	14	70000	6	288(35,21,10,2,1,1,0,0,0,0)	70	121212232220000032200	
572	7	14	70000	6	432(35,23,6,4,1,1,0,0,0,0)	66	222111222330000022100	

GRAPH	N	L	C	SYMMETRY NUMER	COUNT	CNOE	TERM	GRAPH MATRIX
577	7	14	70000	6	576(34,19,11,	2, 1, 1, 0, 0, 0)	70	321212123120000032200
578	7	14	70000	6	576(33,18,10,	3, 1, 1, 0, 0, 0)	68	231221112320000032100
579	7	14	70000	6	864(34,20, 9,	3, 1, 1, 0, 0, 0)	68	231221132130000032100
580	7	14	70000	6	864(34,21, 7,	4, 1, 1, 0, 0, 0)	66	222311131230000022100
581	7	14	70000	6	576(35,21,10,	2, 1, 1, 0, 0, 0)	70	321212123130000032200
582	7	14	70000	6	864(34,20, 9,	3, 1, 1, 0, 0, 0)	68	231221112330000032100
583	7	14	70000	6	864(34,20, 9,	3, 1, 1, 0, 0, 0)	68	231221221220000032100
584	7	14	70000	6	432(34,21, 7,	4, 1, 1, 0, 0, 0)	66	222311222120000022100
585	7	14	70000	6	432(35,21,10,	2, 1, 1, 0, 0, 0)	70	321212212220000032200
586	7	14	70000	6	1152(35,22, 8,	3, 1, 1, 0, 0, 0)	68	231221221230000032100
587	7	14	70000	6	576(35,23, 6,	4, 1, 1, 0, 0, 0)	66	222311222130000022100
588	7	14	70000	6	432(36,23, 9,	2, 1, 1, 0, 0, 0)	70	321212212230000032200
589	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	121121123230020021000
590	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	211112223130020021000
591	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	211112132230020021000
592	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	121121232130020021000
593	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	121121123230020021000
594	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	211112223130020021000
595	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	64	211112312230020021000
596	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	121121232130020021000
597	7	14	70000	8	384(33,19, 7,	6, 0, 1, 0, 0, 0)	66	321121123230020021000
598	7	14	70000	8	384(33,19, 7,	6, 0, 1, 0, 0, 0)	66	211132223130020021000
599	7	14	70000	8	768(35,22, 7,	5, 0, 1, 0, 0, 0)	68	321121123230020021000
600	7	14	70000	8	768(35,22, 7,	5, 0, 1, 0, 0, 0)	68	211132223130020021000
601	7	14	70000	8	384(33,19, 7,	6, 0, 1, 0, 0, 0)	66	231112132230020021000
602	7	14	70000	8	384(33,19, 7,	6, 0, 1, 0, 0, 0)	66	121123232130020021000
603	7	14	70000	8	768(35,22, 7,	5, 0, 1, 0, 0, 0)	68	211132312230020021000
604	7	14	70000	8	768(35,22, 7,	5, 0, 1, 0, 0, 0)	68	121123232130020021000
605	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	321121212130020021000
606	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	231112221130020021000
607	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	231112221130020021000
608	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	321121212130020021000
609	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	211132112230020021000
610	7	14	70000	8	384(32,18, 7,	5, 1, 1, 0, 0, 0)	64	121123121230020021000
611	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	121123212130020021000
612	7	14	70000	8	768(34,21, 7,	4, 1, 1, 0, 0, 0)	66	231112112230020021000
613	7	14	70000	8	384(33,18, 9,	5, 0, 1, 0, 0, 0)	68	222131113230020021000
614	7	14	70000	8	384(33,18, 9,	5, 0, 1, 0, 0, 0)	68	312122213130020021000
615	7	14	70000	8	768(34,20, 8,	5, 0, 1, 0, 0, 0)	68	222113131230020021000
616	7	14	70000	8	768(34,20, 8,	5, 0, 1, 0, 0, 0)	68	132122231130020021000
617	7	14	70000	8	384(33,18, 9,	5, 0, 1, 0, 0, 0)	68	222113131230020021000
618	7	14	70000	8	384(33,18, 9,	5, 0, 1, 0, 0, 0)	68	132122231130020021000
619	7	14	70000	8	384(34,20, 8,	5, 0, 1, 0, 0, 0)	68	222131222130020021000
620	7	14	70000	8	384(34,20, 8,	5, 0, 1, 0, 0, 0)	68	312122122230020021000
621	7	14	70000	8	768(35,22, 7,	5, 0, 1, 0, 0, 0)	68	222131222130020021000
622	7	14	70000	8	768(35,22, 7,	5, 0, 1, 0, 0, 0)	68	312122122230020021000
623	7	14	70000	8	384(34,20, 8,	5, 0, 1, 0, 0, 0)	68	222113222130020021000
624	7	14	70000	8	384(34,20, 8,	5, 0, 1, 0, 0, 0)	68	132122122230020021000
625	7	14	70000	8	768(33,19, 7,	6, 0, 1, 0, 0, 0)	66	231132221130020021000
626	7	14	70000	8	768(33,19, 7,	6, 0, 1, 0, 0, 0)	66	321123121230020021000
627	7	14	70000	8	192(31,16, 7,	7, 0, 1, 0, 0, 0)	66	231132221120010021000
628	7	14	70000	8	384(31,16, 7,	7, 0, 1, 0, 0, 0)	66	321123212120010021000
629	7	14	70000	8	576(35,22, 7,	5, 0, 1, 0, 0, 0)	68	231132221130020021000
630	7	14	70000	8	1152(35,22, 7,	5, 0, 1, 0, 0, 0)	68	321123212130020021000
631	7	14	70000	8	768(33,19, 7,	6, 0, 1, 0, 0, 0)	66	321123212130020021000
632	7	14	70000	8	768(33,19, 7,	6, 0, 1, 0, 0, 0)	66	231132112230020021000
633	7	14	70000	8	192(31,16, 7,	7, 0, 1, 0, 0, 0)	66	231132112220010021000
634	7	14	70000	8	576(35,22, 7,	5, 0, 1, 0, 0, 0)	68	231132112230020021000
635	7	14	70000	4	192(33,20, 5,	6, 2, 0, 0, 0, 0)	66	211223312020100010320
636	7	14	70000	4	192(34,21, 6,	5, 2, 0, 0, 0, 0)	66	211312223020100020320
637	7	14	70000	4	192(33,20, 5,	6, 2, 0, 0, 0, 0)	66	112322213020100010320
638	7	14	70000	4	192(34,21, 6,	5, 2, 0, 0, 0, 0)	66	112213322020100020320
639	7	14	70000	4	384(35,23, 5,	5, 2, 0, 0, 0, 0)	66	211223312030200010320
640	7	14	70000	4	384(36,24, 6,	4, 2, 0, 0, 0, 0)	68	211312223030200020320
641	7	14	70000	4	384(35,23, 5,	5, 2, 0, 0, 0, 0)	66	112322213030200010320
642	7	14	70000	4	384(36,24, 6,	4, 2, 0, 0, 0, 0)	68	112213322030200020320
643	7	14	70000	4	96(34,20, 8,	4, 2, 0, 0, 0, 0)	68	211223223020100010330
644	7	14	70000	4	96(34,20, 8,	4, 2, 0, 0, 0, 0)	68	211223223020100020220
645	7	14	70000	4	96(34,20, 8,	4, 2, 0, 0, 0, 0)	68	112322322020100010330
646	7	14	70000	4	96(34,20, 8,	4, 2, 0, 0, 0, 0)	68	112322322020100020220
647	7	14	70000	4	192(36,23, 8,	3, 2, 0, 0, 0, 0)	70	211223223030200010330
648	7	14	70000	4	192(36,23, 8,	3, 2, 0, 0, 0, 0)	70	211223223030200020220
649	7	14	70000	4	192(36,23, 8,	3, 2, 0, 0, 0, 0)	70	112322322030200010330
650	7	14	70000	4	192(36,23, 8,	3, 2, 0, 0, 0, 0)	70	112322322030200020220
651	7	14	70000	4	96(37,20, 2,	8, 2, 0, 0, 0, 0)	66	211312312020100010220
652	7	14	70000	4	192(34,22, 4,	6, 2, 0, 0, 0, 0)	66	211312312020100020330
653	7	14	70000	4	96(32,20, 2,	8, 2, 0, 0, 0, 0)	66	112213213020100010220
654	7	14	70000	4	192(34,22, 4,	6, 2, 0, 0, 0, 0)	66	112213213020100020330
655	7	14	70000	4	192(34,23, 2,	7, 2, 0, 0, 0, 0)	66	211312312030200020330
656	7	14	70000	4	384(36,25, 4,	5, 2, 0, 0, 0, 0)	66	112213213030200010220
657	7	14	70000	4	192(34,23, 2,	7, 2, 0, 0, 0, 0)	66	112213213030200020330
658	7	14	70000	4	384(36,25, 4,	5, 2, 0, 0, 0, 0)	66	222220222010330013300
659	7	14	70000	2	48(36,23, 7,	5, 1, 0, 0, 0, 0)	70	222220222010330022200
660	7	14	70000	2	96(36,23, 7,	5, 1, 0, 0, 0, 0)	70	112213213021022002000
661	7	14	70000	4	384(34,22, 6,	2, 4, 0, 0, 0, 0)	64	112213213021022003000
662	7	14	70000	4	384(35,24, 5,	2, 4, 0, 0, 0, 0)	64	112213213021022001000
663	7	14	70000	4	96(32,18, 8,	2, 4, 0, 0, 0, 0)	68	121123123021033002000
664	7	14	70000	4	384(34,20,10,	0, 4, 0, 0, 0, 0)	68	121123123021033003000
665	7	14	70000	4	384(35,22, 9,	0, 4, 0, 0, 0, 0)	68	121123123021033001000
666	7	14	70000	4	96(32,16,12,	0, 4, 0, 0, 0, 0)	68	112122213021032002000
667	7	14	70000	4	768(34,22, 6,	2, 4, 0, 0, 0, 0)	64	112122213021032003000
668	7	14	70000	4	768(35,24, 5,	2, 4, 0, 0, 0, 0)	64	112122213021032001000
669	7	14	70000	4	192(32,18, 8,	2, 4, 0, 0, 0, 0)	64	121123212021032002000
670	7	14	70000	4	768(34,22, 6,	2, 4, 0, 0, 0, 0)	64	121123212021032003000
671	7	14	70000	4	768(35,24, 5,	2, 4, 0, 0, 0, 0)	64	121123212021032001000
672	7	14	70000	4	192(32,18, 8,	2, 4, 0, 0, 0, 0)	64	112122122021033002000
673	7	14	70000	4	384(34,22, 6,	2, 4, 0, 0, 0, 0)	64	112122122021033003000
674	7	14	70000	4	384(35,24, 5,	2, 4, 0, 0, 0, 0)	64	112122122021033001000
675	7	14	70000	4	96(32,18, 8,	2, 4, 0, 0, 0, 0)	62	121212120210220020000
676	7	14	70000	4	384(34,24, 2,	4, 4, 0, 0, 0, 0)	62	121212120210220030000
677	7	14	70000	4	384(35,26, 1,	4, 4, 0, 0, 0, 0)	62	121212120210220010000
678	7	14	70000	4	96(32,20, 4,	4, 4, 0, 0, 0, 0)	68	211132132020033020002
679	7	14	70000	2	48(34,20, 8,	4, 2, 0, 0, 0, 0)		

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COOF	TERM	GRAPH MATRIX
680	7	14	70000	2	96136,24,6,4,2,0,0,0,0,0)	68	211132132020033030003	
681	7	14	70000	2	96136,23,8,3,2,0,0,0,0,0)	70	211132223020032030003	
682	7	14	70000	1	48135,22,6,6,1,0,0,0,0,0)	68	231270200722100023270	
683	7	14	70000	1	48135,21,8,5,1,0,0,0,0,0)	70	231270300113200023230	
684	7	14	70000	1	48135,22,6,6,1,0,0,0,0,0)	68	231270300122100023230	
685	7	14	70000	1	48134,20,7,6,1,0,0,0,0,0)	68	222220300113100022230	
686	7	14	70000	1	48136,23,7,5,1,0,0,0,0,0)	70	222270300122200022230	
687	7	14	70000	2	96132,18,7,4,3,0,0,0,0,0)	64	211312132010002021300	
688	7	14	70000	2	96132,19,5,5,3,0,0,0,0,0)	64	121321123010002021200	
689	7	14	70000	2	96132,18,7,4,3,0,0,0,0,0)	64	121321123010002032100	
690	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	211312132010002032200	
691	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	211312132020003021300	
692	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	121321123020003021200	
693	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	121321123020003032100	
694	7	14	70000	2	192135,22,8,2,3,0,0,0,0,0)	68	211312132020003032200	
695	7	14	70000	2	96132,18,7,4,3,0,0,0,0,0)	64	211312132020001021300	
696	7	14	70000	2	96132,19,5,5,3,0,0,0,0,0)	64	121321123020001021200	
697	7	14	70000	2	96132,18,7,4,3,0,0,0,0,0)	64	121321123020001032100	
698	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	211312132020001032200	
699	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	211312132030002021300	
700	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	121321123030002021200	
701	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	121321123030002032100	
702	7	14	70000	2	192135,22,8,2,3,0,0,0,0,0)	68	211312132030002032200	
703	7	14	70000	2	96133,18,10,2,3,0,0,0,0,0)	68	211312223010003021300	
704	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	121321232010003021200	
705	7	14	70000	2	96133,18,10,2,3,0,0,0,0,0)	68	121321232010003032100	
706	7	14	70000	2	96134,19,11,1,3,0,0,0,0,0)	70	211312223010003032200	
707	7	14	70000	2	192134,20,9,2,3,0,0,0,0,0)	68	211312223020002021300	
708	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	121321232020002021200	
709	7	14	70000	2	192134,20,9,2,3,0,0,0,0,0)	68	121321232020002032100	
710	7	14	70000	2	192135,21,10,1,3,0,0,0,0,0)	70	211312223020002032200	
711	7	14	70000	2	96133,18,10,2,3,0,0,0,0,0)	68	211312223030001021300	
712	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	121321232030001021200	
713	7	14	70000	2	96133,18,10,2,3,0,0,0,0,0)	68	121321232030001032100	
714	7	14	70000	2	96134,19,11,1,3,0,0,0,0,0)	70	211312223030001032200	
715	7	14	70000	2	96132,20,3,6,3,0,0,0,0,0)	64	211221132010002021200	
716	7	14	70000	2	96132,19,5,5,3,0,0,0,0,0)	64	121212123010002021300	
717	7	14	70000	2	96133,20,6,4,3,0,0,0,0,0)	64	121212123010002032200	
718	7	14	70000	2	96132,19,5,5,3,0,0,0,0,0)	64	211221132010002032100	
719	7	14	70000	2	192134,23,3,5,3,0,0,0,0,0)	64	211221132020003021200	
720	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	121212123020003021300	
721	7	14	70000	2	192135,23,6,3,3,0,0,0,0,0)	66	121212123020003032200	
722	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	211221132020003032100	
723	7	14	70000	2	96132,20,3,6,3,0,0,0,0,0)	64	211221132020001021200	
724	7	14	70000	2	96132,19,5,5,3,0,0,0,0,0)	64	121212123020001021300	
725	7	14	70000	2	96133,20,6,4,3,0,0,0,0,0)	64	121212123020001032200	
726	7	14	70000	2	96132,19,5,5,3,0,0,0,0,0)	64	211221132020001032100	
727	7	14	70000	2	192134,23,3,5,3,0,0,0,0,0)	64	211221132030002021200	
728	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	121212123030002021300	
729	7	14	70000	2	192135,23,6,3,3,0,0,0,0,0)	66	121212123030002032200	
730	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	211221132030002032100	
731	7	14	70000	2	96133,20,6,4,3,0,0,0,0,0)	64	211221123010003021200	
732	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	121212232010003021300	
733	7	14	70000	2	96134,20,9,2,3,0,0,0,0,0)	68	121212232010003032200	
734	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	211221223010003032100	
735	7	14	70000	2	192134,22,5,4,3,0,0,0,0,0)	64	211221223020002021200	
736	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	121212232020002021300	
737	7	14	70000	2	192135,22,8,2,3,0,0,0,0,0)	68	121212232020002032200	
738	7	14	70000	2	192134,21,7,3,3,0,0,0,0,0)	66	211221223020002032100	
739	7	14	70000	2	96133,20,6,4,3,0,0,0,0,0)	64	211221223030001021200	
740	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	121212232030001021300	
741	7	14	70000	2	96134,20,9,2,3,0,0,0,0,0)	68	121212232030001032200	
742	7	14	70000	2	96133,19,8,3,3,0,0,0,0,0)	66	211221223030001032100	
743	7	14	70000	2	96134,21,6,5,2,0,0,0,0,0)	66	222131310020210022030	
744	7	14	70000	2	48134,21,6,5,2,0,0,0,0,0)	66	222131220020210022020	
745	7	14	70000	2	96134,20,8,4,2,0,0,0,0,0)	68	222131310010320022030	
746	7	14	70000	2	96133,19,7,5,2,0,0,0,0,0)	66	222131310030120013020	
747	7	14	70000	2	48133,20,5,6,2,0,0,0,0,0)	66	222131310020210013020	
748	7	14	70000	2	48134,20,8,4,2,0,0,0,0,0)	68	222131310020230013020	
749	7	14	70000	12	576131,14,12,3,1,1,0,0,0,0)	68	121123321032120000010	
750	7	14	70000	12	2304133,18,10,3,1,1,0,0,0,0)	68	121123321032120000020	
751	7	14	70000	12	2304134,20,9,3,1,1,0,0,0,0)	68	121123321032120000030	
752	7	14	70000	12	576130,13,12,2,2,1,0,0,0,0)	66	211132312022110000010	
753	7	14	70000	12	2304132,17,10,2,2,1,0,0,0,0)	66	211132312022110000020	
754	7	14	70000	12	2304133,19,9,2,2,1,0,0,0,0)	66	211132312022110000030	
755	7	14	70000	12	576131,14,12,3,1,1,0,0,0,0)	68	121232123032110000010	
756	7	14	70000	12	2304133,18,10,3,1,1,0,0,0,0)	68	121232123032110000020	
757	7	14	70000	12	2304134,20,9,3,1,1,0,0,0,0)	68	121232123032110000030	
758	7	14	70000	12	288131,15,10,4,1,1,0,0,0,0)	66	121123212032120000010	
759	7	14	70000	12	1152133,19,8,4,1,1,0,0,0,0)	66	121123212032120000020	
760	7	14	70000	12	1152134,21,7,4,1,1,0,0,0,0)	66	121123212032120000030	
761	7	14	70000	12	576130,14,10,3,2,1,0,0,0,0)	64	211312221022110000010	
762	7	14	70000	12	2304132,18,8,3,2,1,0,0,0,0)	64	211312221022110000020	
763	7	14	70000	12	2304133,20,7,3,2,1,0,0,0,0)	64	211312221022110000030	
764	7	14	70000	12	576131,15,10,4,1,1,0,0,0,0)	66	121232212032110000010	
765	7	14	70000	12	2304133,19,8,4,1,1,0,0,0,0)	66	121232212032110000020	
766	7	14	70000	12	2304134,21,7,4,1,1,0,0,0,0)	66	121232212032110000030	
767	7	14	70000	12	288132,15,13,2,1,1,0,0,0,0)	70	121123232032120000010	
768	7	14	70000	12	1440134,19,11,2,1,1,0,0,0,0)	70	121123232032120000020	
769	7	14	70000	12	1440135,21,10,2,1,1,0,0,0,0)	70	121123232032120000030	
770	7	14	70000	12	576131,14,13,1,2,1,0,0,0,0)	68	211312223022110000010	
771	7	14	70000	12	2880133,18,11,1,2,1,0,0,0,0)	68	211312223022110000020	
772	7	14	70000	12	2880134,20,10,1,2,1,0,0,0,0)	68	211312223022110000030	
773	7	14	70000	12	576132,15,13,2,1,1,0,0,0,0)	70	121232232032110000010	
774	7	14	70000	12	2880134,19,11,2,1,1,0,0,0,0)	70	121232232032110000020	
775	7	14	70000	12	2304135,21,10,2,1,1,0,0,0,0)	70	121232232032110000030	
776	7	14	70000	12	576130,13,12,2,2,1,0,0,0,0)	66	211312312022110000010	
777	7	14	70000	12	2304132,17,10,2,2,1,0,0,0,0)	66	211312312022110000020	
778	7	14	70000	12	2304133,19,9,2,2,1,0,0,0,0)	66	211312312022110000030	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COOE	TFRM	GRAPH MATRIX
783	7	14	70000	12	2304134,20,	9, 3, 1, 1, 0, 0, 0, 01	68	2112233120221200000020
784	7	14	70000	12	2304135,22,	8, 3, 1, 1, 0, 0, 0, 01	68	2112233120221200000030
785	7	14	70000	12	288132,17,	9, 4, 1, 1, 0, 0, 0, 01	66	2112232210221200000010
786	7	14	70000	12	1152134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	2112232210221200000020
787	7	14	70000	12	1152135,23,	6, 4, 1, 1, 0, 0, 0, 01	66	2112232210221200000030
788	7	14	70000	12	288133,17,12,	2, 1, 1, 0, 0, 0, 01	70	2112232230221200000010
789	7	14	70000	12	1440135,21,10,	2, 1, 1, 0, 0, 0, 01	70	2112232230221200000020
790	7	14	70000	12	1152136,23,	9, 2, 1, 1, 0, 0, 0, 01	70	2112232230221200000030
791	7	14	70000	2	96135,22,	7, 4, 2, 0, 0, 0, 0, 01	68	2222201310103320202000
792	7	14	70000	2	96134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	2222201310103320301000
793	7	14	70000	2	96135,21,	9, 3, 2, 0, 0, 0, 0, 01	70	2132202210203220202000
794	7	14	70000	4	192135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	3212121231300020300030
795	7	14	70000	4	96134,19,10,	4, 0, 1, 0, 0, 0, 01	70	2113122231200020300030
796	7	14	70000	4	192132,16,11,	3, 1, 1, 0, 0, 0, 01	68	3122111221300020200020
797	7	14	70000	4	384134,20,	9, 3, 1, 1, 0, 0, 0, 01	68	3122111221300020300030
798	7	14	70000	4	192133,18,10,	3, 1, 1, 0, 0, 0, 01	68	2112211321300020200030
799	7	14	70000	4	192133,18,10,	3, 1, 1, 0, 0, 0, 01	68	2112211321300020300020
800	7	14	70000	4	192135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	2223112221200020300030
801	7	14	70000	4	192135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	3211211232300020300030
802	7	14	70000	4	192134,19,10,	3, 2, 0, 0, 0, 0, 01	70	1322313200210010032300
803	7	14	70000	4	192133,17,11,	3, 2, 0, 0, 0, 0, 01	70	1233213200210010032200
804	7	14	70000	2	96135,22,	7, 4, 2, 0, 0, 0, 0, 01	68	2223112200200020132300
805	7	14	70000	2	96135,21,	9, 3, 2, 0, 0, 0, 0, 01	70	2312212200200020232200
806	7	14	70000	2	96134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	2223112200300010132300
807	7	14	70000	2	48134,21,	5, 7, 1, 0, 0, 0, 0, 01	68	2311322200100230120300
808	7	14	70000	2	96135,22,	6, 6, 1, 0, 0, 0, 0, 01	68	2311322200100230230200
809	7	14	70000	2	48134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	2311121302200030230020
810	7	14	70000	2	96135,22,	7, 4, 2, 0, 0, 0, 0, 01	68	2311121302200030320030
811	7	14	70000	2	96135,21,	9, 3, 2, 0, 0, 0, 0, 01	70	2221131302300020220030
812	7	14	70000	2	48136,23,	7, 5, 1, 0, 0, 0, 0, 01	70	1123222030230020003220
813	7	14	70000	4	24128,12,	8, 4, 4, 0, 0, 0, 0, 01	62	1121201022201012101000
814	7	14	70000	4	96131,17,	6, 5, 3, 0, 0, 0, 0, 01	64	1121201022302022101000
815	7	14	70000	4	96134,22,	4, 6, 2, 0, 0, 0, 0, 01	66	1121201022302023202000
816	7	14	70000	4	192133,20,	5, 6, 2, 0, 0, 0, 0, 01	66	2131301022201032201000
817	7	14	70000	4	192131,16,	8, 4, 3, 0, 0, 0, 0, 01	64	1231201032202012101000
818	7	14	70000	4	384134,21,	6, 5, 2, 0, 0, 0, 0, 01	66	2131301022302022201000
819	7	14	70000	4	192133,19,	7, 5, 2, 0, 0, 0, 0, 01	66	1122301023203013201000
820	7	14	70000	4	192131,15,10,	3, 3, 0, 0, 0, 0, 01	66	1121202033302012101000
821	7	14	70000	4	384134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	1122301023302023201000
822	7	14	70000	4	96133,19,	7, 5, 2, 0, 0, 0, 0, 01	66	2221301032202012201000
823	7	14	70000	4	192133,18,	9, 4, 2, 0, 0, 0, 0, 01	68	2221301032301022201000
824	7	14	70000	4	96133,17,11,	3, 2, 0, 0, 0, 0, 01	70	1122302032302013201000
825	7	14	70000	4	192135,22,	7, 4, 2, 0, 0, 0, 0, 01	68	1231202023302022201000
826	7	14	70000	4	96133,18,10,	2, 3, 0, 0, 0, 0, 01	68	1231202023302022101000
827	7	14	70000	4	192136,23,	8, 3, 2, 0, 0, 0, 0, 01	70	2132201023302022202000
828	7	14	70000	4	96133,20,	5, 6, 2, 0, 0, 0, 0, 01	66	2132201023102023101000
829	7	14	70000	4	192133,19,	7, 5, 2, 0, 0, 0, 0, 01	66	2132201023203013101000
830	7	14	70000	4	96131,15,10,	3, 3, 0, 0, 0, 0, 01	66	1231202023301012101000
831	7	14	70000	4	192134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	2132201023302023101000
832	7	14	70000	4	288134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	2131302033301022201000
833	7	14	70000	4	384134,19,10,	3, 2, 0, 0, 0, 0, 01	70	2131302033302012201000
834	7	14	70000	4	192135,21,	9, 3, 2, 0, 0, 0, 0, 01	70	2221302023302022201000
835	7	14	70000	4	192133,18,	9, 4, 2, 0, 0, 0, 0, 01	68	2222201033202013101000
836	7	14	70000	4	192133,17,11,	3, 2, 0, 0, 0, 0, 01	70	2132202032302013101000
837	7	14	70000	4	96134,19,10,	3, 2, 0, 0, 0, 0, 01	70	2222202022202023101000
838	7	14	70000	4	48132,16,10,	4, 2, 0, 0, 0, 0, 01	68	2222202022301013101000
839	7	14	70000	2	96136,24,	5, 6, 1, 0, 0, 0, 0, 01	68	1232022022120032302000
840	7	14	70000	2	48137,25,	6, 5, 1, 0, 0, 0, 0, 01	70	1232022022230022302000
841	7	14	70000	4	192135,23,	5, 5, 2, 0, 0, 0, 0, 01	66	2112231320100323000020
842	7	14	70000	4	96134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	1212322320100332000010
843	7	14	70000	4	192136,23,	8, 3, 2, 0, 0, 0, 0, 01	70	1212322320100333000020
844	7	14	70000	4	192135,22,	7, 4, 2, 0, 0, 0, 0, 01	68	2112231320200032002020
845	7	14	70000	4	192134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	2111321122200303020000
846	7	14	70000	4	192134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	1121222131300203020000
847	7	14	70000	4	192136,24,	6, 5, 0, 1, 0, 0, 0, 01	68	3121221222200303020000
848	7	14	70000	4	96136,24,	6, 5, 0, 1, 0, 0, 0, 01	68	312122122220030203020000
849	7	14	70000	4	192134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	1121222311200303020000
850	7	14	70000	4	96134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	1121222311300203020000
851	7	14	70000	4	192130,15,	7, 6, 1, 1, 0, 0, 0, 01	64	3121222111100202010000
852	7	14	70000	4	384132,18,	7, 5, 1, 1, 0, 0, 0, 01	64	3121222111300201020000
853	7	14	70000	4	384132,18,	7, 5, 1, 1, 0, 0, 0, 01	64	3121222111200302010000
854	7	14	70000	4	96130,15,	7, 6, 1, 1, 0, 0, 0, 01	64	3121222111200102010000
855	7	14	70000	4	384132,18,	7, 5, 1, 1, 0, 0, 0, 01	64	3121222111300202010000
856	7	14	70000	4	192134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	3121222111200302030000
857	7	14	70000	4	768134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	3121222111200303020000
858	7	14	70000	4	384134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	3121222111300203020000
859	7	14	70000	4	192132,18,	7, 5, 1, 1, 0, 0, 0, 01	64	2131122211300201020000
860	7	14	70000	4	192132,18,	7, 5, 1, 1, 0, 0, 0, 01	64	2131122211200302010000
861	7	14	70000	4	192132,18,	7, 5, 1, 1, 0, 0, 0, 01	64	2131122211300202010000
862	7	14	70000	4	192134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	2131122211200302030000
863	7	14	70000	4	384134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	2111322211200303020000
864	7	14	70000	4	384134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	2131122211200303020000
865	7	14	70000	4	384134,21,	7, 4, 1, 1, 0, 0, 0, 01	66	2131122211300203020000
866	7	14	70000	4	192133,19,	7, 6, 0, 1, 0, 0, 0, 01	66	3121222131300201020000
867	7	14	70000	4	192135,22,	7, 5, 0, 1, 0, 0, 0, 01	68	3121222131200302030000
868	7	14	70000	4	384135,22,	7, 5, 0, 1, 0, 0, 0, 01	68	2111323122200303020000
86								

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
886	7	14	70000	4	96(34,20, 8, 5, 0, 1, 0, 0, 0, 0)	68	211223221210030302000	
887	7	14	70000	4	192(35,22, 7, 5, 0, 1, 0, 0, 0, 0)	68	222113222120030202000	
888	7	14	70000	4	192(35,22, 7, 5, 0, 1, 0, 0, 0, 0)	68	222113222130020202000	
889	7	14	70000	4	96(34,20, 8, 5, 0, 1, 0, 0, 0, 0)	68	222113222120030301000	
890	7	14	70000	4	96(34,20, 8, 5, 0, 1, 0, 0, 0, 0)	68	222113222130020301000	
891	7	14	70000	4	192(33,18, 9, 5, 0, 1, 0, 0, 0, 0)	68	22222311110030202000	
892	7	14	70000	4	192(32,16,10, 5, 0, 1, 0, 0, 0, 0)	68	22222311110030301000	
893	7	14	70000	4	288(34,20, 8, 5, 0, 1, 0, 0, 0, 0)	68	22222311120020202000	
894	7	14	70000	4	384(33,18, 9, 5, 0, 1, 0, 0, 0, 0)	68	22222311120020301000	
895	7	14	70000	4	96(32,16,10, 5, 0, 1, 0, 0, 0, 0)	68	22222311130010301000	
896	7	14	70000	4	96(36,25, 4, 5, 2, 0, 0, 0, 0, 0)	66	112322122023000203002	
897	7	14	70000	4	192(35,23, 5, 5, 2, 0, 0, 0, 0, 0)	66	112213322023000102002	
898	7	14	70000	4	192(36,24, 6, 4, 2, 0, 0, 0, 0, 0)	68	11232231023000203002	
899	7	14	70000	4	48(34,22, 4, 6, 2, 0, 0, 0, 0, 0)	66	112322322012000102002	
900	7	14	70000	4	192(36,24, 6, 4, 2, 0, 0, 0, 0, 0)	68	11232322023000102003	
901	7	14	70000	4	96(37,25, 7, 3, 2, 0, 0, 0, 0, 0)	70	112322322023000203002	
902	7	14	70000	4	192(33,19, 8, 4, 1, 1, 0, 0, 0, 0)	66	211132312221002000000	
903	7	14	70000	4	384(34,21, 7, 4, 1, 1, 0, 0, 0, 0)	66	211132312221003000000	
904	7	14	70000	4	192(35,21,10, 2, 1, 1, 0, 0, 0, 0)	70	121123321223200300000	
905	7	14	70000	4	192(33,18,10, 3, 1, 1, 0, 0, 0, 0)	68	121123321232100200000	
906	7	14	70000	4	384(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	121123321232100300000	
907	7	14	70000	4	192(32,17,10, 2, 2, 1, 0, 0, 0, 0)	66	211312221113200200000	
908	7	14	70000	4	384(33,19, 9, 2, 2, 1, 0, 0, 0, 0)	66	211312221113200300000	
909	7	14	70000	4	192(30,14,10, 3, 2, 1, 0, 0, 0, 0)	64	211312221122100100000	
910	7	14	70000	4	768(32,18, 8, 3, 2, 1, 0, 0, 0, 0)	64	211312221122100200000	
911	7	14	70000	4	768(33,20, 7, 3, 2, 1, 0, 0, 0, 0)	64	211312221122100300000	
912	7	14	70000	4	384(33,18,11, 1, 2, 1, 0, 0, 0, 0)	68	121212321123200200000	
913	7	14	70000	4	576(34,20,10, 1, 2, 1, 0, 0, 0, 0)	68	121212321123200300000	
914	7	14	70000	4	192(30,13,12, 2, 2, 1, 0, 0, 0, 0)	66	121212321132100100000	
915	7	14	70000	4	768(32,17,10, 2, 2, 1, 0, 0, 0, 0)	66	121212321132100200000	
916	7	14	70000	4	768(33,19, 9, 2, 2, 1, 0, 0, 0, 0)	66	121212321132100300000	
917	7	14	70000	4	192(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	211223312113200300000	
918	7	14	70000	4	384(33,19, 8, 4, 1, 1, 0, 0, 0, 0)	66	211223312122100200000	
919	7	14	70000	4	576(34,21, 7, 4, 1, 1, 0, 0, 0, 0)	66	211223312122100300000	
920	7	14	70000	4	192(34,19,11, 2, 1, 1, 0, 0, 0, 0)	70	121232321123200200000	
921	7	14	70000	4	384(35,21,10, 2, 1, 1, 0, 0, 0, 0)	70	121232321123200300000	
922	7	14	70000	4	384(33,18,10, 3, 1, 1, 0, 0, 0, 0)	68	121232321132100200000	
923	7	14	70000	4	576(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	121232321132100300000	
924	7	14	70000	4	192(32,18, 8, 3, 2, 1, 0, 0, 0, 0)	64	211132221122100200000	
925	7	14	70000	4	384(33,20, 7, 3, 2, 1, 0, 0, 0, 0)	64	211132221122100300000	
926	7	14	70000	4	192(34,20,10, 1, 2, 1, 0, 0, 0, 0)	68	121123212123200300000	
927	7	14	70000	4	192(32,17,10, 2, 2, 1, 0, 0, 0, 0)	66	121123212132100200000	
928	7	14	70000	4	384(33,19, 9, 2, 2, 1, 0, 0, 0, 0)	66	121123212132100300000	
929	7	14	70000	4	192(33,19, 8, 4, 1, 1, 0, 0, 0, 0)	66	211223132122100200000	
930	7	14	70000	4	384(34,21, 7, 4, 1, 1, 0, 0, 0, 0)	66	211223132122100300000	
931	7	14	70000	4	192(35,21,10, 2, 1, 1, 0, 0, 0, 0)	70	121123232123200300000	
932	7	14	70000	4	192(33,18,10, 3, 1, 1, 0, 0, 0, 0)	68	121123232132100200000	
933	7	14	70000	4	384(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	121123232132100300000	
934	7	14	70000	4	192(35,22, 8, 3, 1, 1, 0, 0, 0, 0)	68	211223221213200300000	
935	7	14	70000	4	384(34,21, 7, 4, 1, 1, 0, 0, 0, 0)	66	211223221223100200000	
936	7	14	70000	4	576(35,23, 6, 4, 1, 1, 0, 0, 0, 0)	66	211223221223100300000	
937	7	14	70000	4	192(35,21,10, 2, 1, 1, 0, 0, 0, 0)	70	121232212223200200000	
938	7	14	70000	4	384(36,23, 9, 2, 1, 1, 0, 0, 0, 0)	70	121232212223200300000	
939	7	14	70000	4	384(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	121232212232100200000	
940	7	14	70000	4	576(35,22, 8, 3, 1, 1, 0, 0, 0, 0)	68	121232212232100300000	
941	7	14	70000	4	192(35,22, 8, 3, 1, 1, 0, 0, 0, 0)	68	112322122223100300000	
942	7	14	70000	4	96(36,23, 9, 2, 1, 1, 0, 0, 0, 0)	70	112322122232200300000	
943	7	14	70000	4	192(34,21, 7, 4, 1, 1, 0, 0, 0, 0)	66	112322231112200300000	
944	7	14	70000	4	192(33,18,10, 3, 1, 1, 0, 0, 0, 0)	68	112322231123100200000	
945	7	14	70000	4	384(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	112322231123100300000	
946	7	14	70000	4	192(33,18,10, 3, 1, 1, 0, 0, 0, 0)	68	112213322123100200000	
947	7	14	70000	4	384(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	112213322123100300000	
948	7	14	70000	4	192(34,19,11, 2, 1, 1, 0, 0, 0, 0)	70	112322231132200200000	
949	7	14	70000	4	384(35,21,10, 2, 1, 1, 0, 0, 0, 0)	70	112322231132200300000	
950	7	14	70000	4	192(33,19, 9, 2, 2, 1, 0, 0, 0, 0)	66	112122231123100300000	
951	7	14	70000	4	192(33,19, 9, 2, 2, 1, 0, 0, 0, 0)	66	1122131222123100300000	
952	7	14	70000	4	192(34,20,10, 1, 2, 1, 0, 0, 0, 0)	68	112122231132200300000	
953	7	14	70000	4	96(34,21, 7, 4, 1, 1, 0, 0, 0, 0)	66	112213231212200300000	
954	7	14	70000	4	192(33,18,10, 3, 1, 1, 0, 0, 0, 0)	68	112213231223100200000	
955	7	14	70000	4	384(34,20, 9, 3, 1, 1, 0, 0, 0, 0)	68	112213231223100300000	
956	7	14	70000	4	96(34,19,11, 2, 1, 1, 0, 0, 0, 0)	70	112213231232200200000	
957	7	14	70000	4	192(35,21,10, 2, 1, 1, 0, 0, 0, 0)	70	112213231232200300000	
958	7	14	70000	1	48(35,24, 4, 4, 3, 0, 0, 0, 0, 0)	64	112122120232200302000	
959	7	14	70000	1	48(34,22, 5, 4, 3, 0, 0, 0, 0, 0)	64	112122230121300203000	
960	7	14	70000	1	48(34,22, 5, 4, 3, 0, 0, 0, 0, 0)	64	112122230121300302000	
961	7	14	70000	1	48(35,23, 6, 3, 3, 0, 0, 0, 0, 0)	66	112122230132200203000	
962	7	14	70000	1	48(35,23, 6, 3, 3, 0, 0, 0, 0, 0)	66	112122230132200302000	
963	7	14	70000	1	48(35,23, 6, 3, 3, 0, 0, 0, 0, 0)	66	112122210332200203000	
964	7	14	70000	1	48(35,23, 6, 3, 3, 0, 0, 0, 0, 0)	66	112122210332200302000	
965	7	14	70000	1	48(35,23, 6, 3, 3, 0, 0, 0, 0, 0)	66	112122320221300203000	
966	7	14	70000	1	48(35,23, 6, 3, 3, 0, 0, 0, 0, 0)	66	112122320221300302000	
967	7	14	70000	1	48(36,24, 7, 2, 3, 0, 0, 0, 0, 0)	68	112122320232200203000	
968	7	14	70000	1	48(36,24, 7, 2, 3, 0, 0, 0, 0, 0)	68	112122320232200302000	
969	7	14	70000	1	48(34,21, 7, 3, 3, 0, 0, 0, 0, 0)	66	112213120323100302000	
970	7	14	70000	1	48(33,19, 8, 3, 3, 0, 0, 0, 0, 0)	66	112213120332200201000	
971	7	14	70000	1	96(35,22, 8, 2, 3, 0, 0, 0, 0, 0)	68	1122131203322003020	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
989	7	14	70000	1	48(32,18,7,4,3,0,0,0,0,0)	64	112213320121300201000	
990	7	14	70000	1	96(34,21,7,3,3,0,0,0,0,0)	66	112213320121300203000	
991	7	14	70000	1	96(34,21,7,3,3,0,0,0,0,0)	66	112213320121300302000	
992	7	14	70000	1	48(34,21,7,3,3,0,0,0,0,0)	66	112213320123100203000	
993	7	14	70000	1	48(34,21,7,3,3,0,0,0,0,0)	66	112213320123100302000	
994	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	112213320132200102000	
995	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	112213320132200201000	
996	7	14	70000	1	96(35,22,8,2,3,0,0,0,0,0)	68	112213320132200203000	
997	7	14	70000	1	96(35,22,8,2,3,0,0,0,0,0)	68	112213320132200302000	
998	7	14	70000	2	192(36,25,4,5,2,0,0,0,0,0)	66	123121103223003320000	
999	7	14	70000	2	96(36,24,6,4,2,0,0,0,0,0)	68	112231203223002230000	
1000	7	14	70000	2	96(36,24,6,4,2,0,0,0,0,0)	68	112231203223002320000	
1001	7	14	70000	2	48(34,22,4,6,2,0,0,0,0,0)	66	112211230010203230003	
1002	7	14	70000	2	96(37,27,2,7,1,0,0,0,0,0)	68	112322230010203230003	
1003	7	14	70000	2	96(37,26,4,6,1,0,0,0,0,0)	68	123212230010303230003	
1004	7	14	70000	2	96(35,23,4,7,1,0,0,0,0,0)	68	123321230010303120002	
1005	7	14	70000	2	144(37,25,6,5,1,0,0,0,0,0)	70	123321230010303230003	
1006	7	14	70000	8	192(35,24,5,2,4,0,0,0,0,0)	64	112122210321302300000	
1007	7	14	70000	8	192(34,22,6,2,4,0,0,0,0,0)	64	121123210321202200000	
1008	7	14	70000	8	396(35,24,5,2,4,0,0,0,0,0)	64	121123210321202300000	
1009	7	14	70000	8	48(32,20,4,4,4,0,0,0,0,0)	62	121212210221202100000	
1010	7	14	70000	8	192(34,24,2,4,4,0,0,0,0,0)	62	121212210221202200000	
1011	7	14	70000	8	192(35,26,1,4,4,0,0,0,0,0)	62	121212210221202300000	
1012	7	14	70000	2	96(35,23,5,5,2,0,0,0,0,0)	66	123212120310302320000	
1013	7	14	70000	2	96(36,24,6,4,2,0,0,0,0,0)	68	112213230220302230000	
1014	7	14	70000	2	96(36,24,6,4,2,0,0,0,0,0)	68	112213230220302320000	
1015	7	14	70000	2	48(34,20,8,4,2,0,0,0,0,0)	68	123212230210303210000	
1016	7	14	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	123212230210303320000	
1017	7	14	70000	2	48(34,20,8,4,2,0,0,0,0,0)	68	123212230220202120000	
1018	7	14	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	123212230220202230000	
1019	7	14	70000	2	48(34,20,8,4,2,0,0,0,0,0)	69	123212230220202210000	
1020	7	14	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	123212230220202320000	
1021	7	14	70000	1	48(34,23,3,5,3,0,0,0,0,0)	64	112120122223010302000	
1022	7	14	70000	1	48(35,24,4,4,3,0,0,0,0,0)	64	112120122232020302000	
1023	7	14	70000	1	48(32,18,7,4,3,0,0,0,0,0)	64	112120213323010201000	
1024	7	14	70000	1	96(34,21,7,3,3,0,0,0,0,0)	66	112120213323010302000	
1025	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	112120213332020201000	
1026	7	14	70000	1	96(35,22,8,2,3,0,0,0,0,0)	68	112120213332020302000	
1027	7	14	70000	1	48(35,23,6,3,3,0,0,0,0,0)	66	112210122232020302000	
1028	7	14	70000	1	48(34,22,5,4,3,0,0,0,0,0)	64	112210122332010203000	
1029	7	14	70000	1	48(34,22,5,4,3,0,0,0,0,0)	64	112210122332010302000	
1030	7	14	70000	1	48(33,20,6,4,3,0,0,0,0,0)	64	112210213223020201000	
1031	7	14	70000	1	48(35,23,6,3,3,0,0,0,0,0)	66	112210213223020203000	
1032	7	14	70000	1	96(35,23,6,3,3,0,0,0,0,0)	66	112210213223020302000	
1033	7	14	70000	1	48(32,19,5,5,3,0,0,0,0,0)	64	112210213232010102000	
1034	7	14	70000	1	48(32,19,5,5,3,0,0,0,0,0)	64	112210213232010201000	
1035	7	14	70000	1	96(34,22,5,4,3,0,0,0,0,0)	64	112210213232010203000	
1036	7	14	70000	1	96(34,22,5,4,3,0,0,0,0,0)	64	112210213232010302000	
1037	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	123120212312020301000	
1038	7	14	70000	1	48(34,20,9,2,3,0,0,0,0,0)	68	123120212323010202000	
1039	7	14	70000	1	48(33,18,10,2,3,0,0,0,0,0)	68	123120212323010301000	
1040	7	14	70000	1	48(34,20,9,2,3,0,0,0,0,0)	68	123120212323010302000	
1041	7	14	70000	1	48(33,18,10,2,3,0,0,0,0,0)	68	123120212323010303000	
1042	7	14	70000	1	48(35,21,10,1,3,0,0,0,0,0)	70	123120212332020202000	
1043	7	14	70000	1	48(34,19,11,1,3,0,0,0,0,0)	70	123120212332020301000	
1044	7	14	70000	1	48(34,21,7,3,3,0,0,0,0,0)	66	123210212212030202000	
1045	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	123210212212030301000	
1046	7	14	70000	1	96(35,22,8,2,3,0,0,0,0,0)	68	123210212223020202000	
1047	7	14	70000	1	48(34,20,9,2,3,0,0,0,0,0)	68	123210212223020301000	
1048	7	14	70000	1	48(33,20,6,4,3,0,0,0,0,0)	64	123210212221020103000	
1049	7	14	70000	1	96(34,22,5,4,3,0,0,0,0,0)	64	123210212221020202000	
1050	7	14	70000	1	48(33,20,6,4,3,0,0,0,0,0)	64	123210212221020301000	
1051	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	123210212232010103000	
1052	7	14	70000	1	96(34,21,7,3,3,0,0,0,0,0)	66	123210212232010202000	
1053	7	14	70000	1	48(33,19,8,3,3,0,0,0,0,0)	66	123210212232010301000	
1054	7	14	70000	2	96(32,18,7,4,3,0,0,0,0,0)	64	112120231021010203300	
1055	7	14	70000	2	24(28,12,8,4,4,0,0,0,0,0)	62	112120211021010102200	
1056	7	14	70000	2	48(30,14,10,2,4,0,0,0,0,0)	64	112120211021010203300	
1057	7	14	70000	2	96(31,17,6,5,3,0,0,0,0,0)	64	112120322021010102200	
1058	7	14	70000	2	192(33,19,8,3,3,0,0,0,0,0)	66	112120322021010203300	
1059	7	14	70000	2	192(35,23,5,5,2,0,0,0,0,0)	66	112120322023010203300	
1060	7	14	70000	2	96(34,22,4,6,2,0,0,0,0,0)	66	112120322032020102200	
1061	7	14	70000	2	192(36,24,6,4,2,0,0,0,0,0)	68	112120322032020203300	
1062	7	14	70000	2	48(34,22,4,6,2,0,0,0,0,0)	66	112120231023010203300	
1063	7	14	70000	2	96(31,16,8,4,3,0,0,0,0,0)	64	123120212021010103200	
1064	7	14	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	112230211021020203200	
1065	7	14	70000	2	96(31,15,10,3,3,0,0,0,0,0)	66	123120321021010103200	
1066	7	14	70000	2	96(32,16,11,2,3,0,0,0,0,0)	68	112230211032010203200	
1067	7	14	70000	2	192(34,21,6,5,2,0,0,0,0,0)	66	123120212032020103200	
1068	7	14	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	112230322021020203200	
1069	7	14	70000	2	192(34,20,8,4,2,0,0,0,0,0)	68	123120321032020103200	
1070	7	14	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	112230322032010203200	
1071	7	14	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	112230122032010203200	
1072	7	14	70000	2	96(33,19,7,5,2,0,0,0,0,0)	66	123120321021030103200	
1073	7	14	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	112230213032010203200	
1074	7	14	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	112230231021020203200	
1075	7	14	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	112230231032010203200	
1076	7	14	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	123230212021020103300	
1077	7	14	70000	2	48(34,20,8,4,2,0,0,0,0,0)	68	123230212021020202200	
1078	7	14	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	123230212032010103300	
1079	7	14	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	123230212032010202200	
1080	7	14	70000	2	96(32,17,8,5,2,0,0,0,0,0)	66	213130312022010102200	
1081	7	14	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	213130312022010203300	
1082	7	14	70000	2	48(32,16,10,4,2,0,0,0,0,0)	68	213130312031020102200	
1083	7	14	70000	2	48(32,18,6,6,2,0,0,0,0,0)	66	213130221022010102200	
1084	7	14	70000	2	144(34,20,8,4,2,0,0,0,0,0)	68	213130221022010203300	
1085	7	14	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	222130222031020103200	
1086	7	14	70000	2	96(32,16,10,4,2,0,0,0,0,0)	68	222130311031020103200	
1087	7	14	70000	2	96(33,17,11,3,2,0,0,0,0,0)	70	213220312031010203200	
1088	7	14	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	2221302	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1092	7	14	70000	2	96(34,19,10,	3, 2, 0, 0, 0, 0)	70	222220222031010103300
1093	7	14	70000	2	96(34,19,10,	3, 2, 0, 0, 0, 0)	70	222220222031010202200
1094	7	14	70000	2	48(32,16,10,	4, 2, 0, 0, 0, 0)	68	222220311031010103300
1095	7	14	70000	2	48(32,16,10,	4, 2, 0, 0, 0, 0)	68	222220311031010202200
1096	7	14	70000	1	48(35,24,	3, 6, 2, 0, 0, 0)	66	112122230020302230100
1097	7	14	70000	1	48(36,25,	4, 5, 2, 0, 0, 0)	66	112122230020302320200
1098	7	14	70000	1	48(34,22,	4, 6, 2, 0, 0, 0)	66	112213230010203320100
1099	7	14	70000	1	48(36,24,	6, 4, 2, 0, 0, 0)	68	112213230020302230200
1100	7	14	70000	1	48(35,23,	5, 5, 2, 0, 0, 0)	66	112213230020302320100
1101	7	14	70000	1	48(33,20,	5, 6, 2, 0, 0, 0)	66	123212120010302320100
1102	7	14	70000	1	48(35,22,	7, 4, 2, 0, 0, 0)	68	123212120020203230200
1103	7	14	70000	1	48(34,21,	6, 5, 2, 0, 0, 0)	66	123212120020203320100
1104	7	14	70000	1	48(35,23,	5, 5, 2, 0, 0, 0)	66	123212230010303210200
1105	7	14	70000	1	96(35,22,	7, 4, 2, 0, 0, 0)	68	123212230010303201000
1106	7	14	70000	1	48(35,22,	7, 4, 2, 0, 0, 0)	68	123212230020202120300
1107	7	14	70000	1	48(35,23,	5, 5, 2, 0, 0, 0)	66	123212230020202102200
1108	7	14	70000	1	48(36,23,	8, 3, 2, 0, 0, 0)	70	123212230020202230200
1109	7	14	70000	1	48(35,22,	7, 4, 2, 0, 0, 0)	68	123212230020202320100
1110	7	14	70000	6	288(30,15,	7, 6, 1, 1, 0, 0)	64	132122211112000200001
1111	7	14	70000	6	576(32,18,	7, 5, 1, 1, 0, 0)	64	132122211112000300002
1112	7	14	70000	6	576(33,19,	8, 4, 1, 1, 0, 0)	66	132122211123000200002
1113	7	14	70000	6	576(32,17,	9, 4, 1, 1, 0, 0)	66	132122211123000300001
1114	7	14	70000	6	288(34,20,	8, 5, 0, 1, 0, 0)	68	112213322123000200002
1115	7	14	70000	6	288(33,18,	9, 5, 0, 1, 0, 0)	68	112213322123000300001
1116	7	14	70000	6	144(32,17,	9, 4, 1, 1, 0, 0)	66	121212321123000100003
1117	7	14	70000	6	288(33,19,	8, 4, 1, 1, 0, 0)	66	121212321123000200002
1118	7	14	70000	6	144(32,17,	9, 4, 1, 1, 0, 0)	66	121212321123000300001
1119	7	14	70000	6	288(31,16,	7, 7, 0, 1, 0, 0)	66	123212321112000200001
1120	7	14	70000	6	288(33,19,	7, 6, 0, 1, 0, 0)	66	123212321112000200003
1121	7	14	70000	6	576(33,19,	7, 6, 0, 1, 0, 0)	66	123212321112000300002
1122	7	14	70000	6	864(34,20,	8, 5, 0, 1, 0, 0)	68	123212321123000200002
1123	7	14	70000	6	576(33,18,	9, 5, 0, 1, 0, 0)	68	123212321123000300001
1124	7	14	70000	6	288(32,17,	9, 4, 1, 1, 0, 0)	66	112213122123000300001
1125	7	14	70000	6	288(33,19,	8, 4, 1, 1, 0, 0)	66	121123212123000200002
1126	7	14	70000	6	288(32,17,	9, 4, 1, 1, 0, 0)	66	121123212123000300001
1127	7	14	70000	6	288(30,15,	7, 6, 1, 1, 0, 0)	64	123212121112000200001
1128	7	14	70000	6	576(32,18,	7, 5, 1, 1, 0, 0)	64	123212121112000300002
1129	7	14	70000	6	576(33,19,	8, 4, 1, 1, 0, 0)	66	123212121112300020002
1130	7	14	70000	6	576(32,17,	9, 4, 1, 1, 0, 0)	66	1232121211123000300001
1131	7	14	70000	6	288(34,20,	8, 5, 0, 1, 0, 0)	68	121123232123000200002
1132	7	14	70000	6	288(33,18,	9, 5, 0, 1, 0, 0)	68	121123232123000300001
1133	7	14	70000	6	288(35,22,	7, 5, 0, 1, 0, 0)	68	123212212223000200002
1134	7	14	70000	6	144(34,20,	8, 5, 0, 1, 0, 0)	68	123212212223000300001
1135	7	14	70000	6	144(34,20,	8, 5, 0, 1, 0, 0)	68	132122122223000300001
1136	7	14	70000	6	288(31,16,	7, 7, 0, 1, 0, 0)	66	132122231112000200001
1137	7	14	70000	6	576(33,19,	7, 6, 0, 1, 0, 0)	66	132122231112000300002
1138	7	14	70000	6	576(34,20,	8, 5, 0, 1, 0, 0)	68	132122231112300020002
1139	7	14	70000	6	576(33,18,	9, 5, 0, 1, 0, 0)	68	1321222311123000300001
1140	7	14	70000	6	144(32,17,	9, 4, 1, 1, 0, 0)	66	112122231123000300001
1141	7	14	70000	6	576(31,15,	9, 6, 0, 1, 0, 0)	66	213312221113000200001
1142	7	14	70000	6	864(33,18,	9, 5, 0, 1, 0, 0)	68	213312221113000300002
1143	7	14	70000	6	576(33,18,	9, 5, 0, 1, 0, 0)	68	213312221122000200002
1144	7	14	70000	6	576(32,16,10,	5, 0, 1, 0, 0)	68	213312221122000300001
1145	7	14	70000	6	144(34,20,	8, 5, 0, 1, 0, 0)	68	222222311113000200003
1146	7	14	70000	6	288(32,17,	8, 6, 0, 1, 0, 0)	66	222222311113000200001
1147	7	14	70000	6	432(34,20,	8, 5, 0, 1, 0, 0)	68	222222311113000300002
1148	7	14	70000	6	288(34,20,	8, 5, 0, 1, 0, 0)	68	222222311112200020002
1149	7	14	70000	6	288(33,18,	9, 5, 0, 1, 0, 0)	68	2222223111122000300001
1150	7	14	70000	6	288(32,17,	8, 6, 0, 1, 0, 0)	66	222222311113000200001
1151	7	14	70000	6	432(34,20,	8, 5, 0, 1, 0, 0)	68	222222311113000300002
1152	7	14	70000	6	288(34,20,	8, 5, 0, 1, 0, 0)	68	222222311122000200002
1153	7	14	70000	6	288(33,18,	9, 5, 0, 1, 0, 0)	68	222222311122000300001
1154	7	14	70000	4	192(33,19,	8, 3, 3, 0, 0, 0)	66	112122203123000320001
1155	7	14	70000	4	96(34,20,	9, 2, 3, 0, 0, 0)	68	112122203223000320001
1156	7	14	70000	4	384(32,18,	7, 4, 3, 0, 0, 0)	64	123121103232000210001
1157	7	14	70000	4	384(32,19,	5, 5, 3, 0, 0, 0)	64	123121202123000120001
1158	7	14	70000	4	192(30,15,	8, 3, 4, 0, 0, 0)	62	123121202112000210001
1159	7	14	70000	4	384(33,20,	6, 4, 3, 0, 0, 0)	64	123121202132000120002
1160	7	14	70000	4	384(33,20,	6, 4, 3, 0, 0, 0)	64	123121202123000210002
1161	7	14	70000	4	384(33,19,	8, 3, 3, 0, 0, 0)	66	123121202123000320001
1162	7	14	70000	4	384(32,19,	5, 5, 3, 0, 0, 0)	64	123121202132000210001
1163	7	14	70000	4	192(34,20,	9, 2, 3, 0, 0, 0)	68	112231203223000210002
1164	7	14	70000	4	192(34,19,11,	1, 3, 0, 0, 0)	70	112231203223000320001
1165	7	14	70000	4	384(33,19,	8, 3, 3, 0, 0, 0)	66	112231203232000210001
1166	7	14	70000	4	384(32,18,	7, 4, 3, 0, 0, 0)	64	112231302123000120001
1167	7	14	70000	4	192(30,14,10,	2, 4, 0, 0, 0)	64	112231302112000210001
1168	7	14	70000	4	384(33,19,	8, 3, 3, 0, 0, 0)	66	112231302132000120002
1169	7	14	70000	4	384(33,19,	8, 3, 3, 0, 0, 0)	66	112231302123000210002
1170	7	14	70000	4	384(33,18,10,	2, 3, 0, 0, 0)	68	112231302123000320001
1171	7	14	70000	4	384(32,18,	7, 4, 3, 0, 0, 0)	64	112231302132000210001
1172	7	14	70000	4	192(32,16,11,	2, 3, 0, 0, 0)	68	222131202113000220001
1173	7	14	70000	4	384(32,17,	9, 3, 3, 0, 0, 0)	66	222131202113000220001
1174	7	14	70000	4	192(32,16,11,	2, 3, 0, 0, 0)	68	222131202113000310002
1175	7	14	70000	4	192(34,20,	9, 2, 3, 0, 0, 0)	68	222131202122000220002
1176	7	14	70000	4	384(32,17,	9, 3, 3, 0, 0, 0)	66	222131202122000310001
1177	7	14	70000	4	192(33,17,12,	1, 3, 0, 0, 0)	70	213221203223000310001
1178	7	14	70000	4	384(32,16,11,	2, 3, 0, 0, 0)	68	213221302113000220001
1179	7	14	70000	4	192(32,15,13,	1, 3, 0, 0, 0)	70	213221302113000310002
1180	7	14	70000	4	192(34,19,11,	1, 3, 0, 0, 0)	70	213221302122000220002
1181	7	14	70000	4	384(32,16,11,	2, 3, 0, 0, 0)	68	213221302122000310001
1182	7	14	70000	4	192(35,22,	8, 2, 3, 0, 0, 0)	68	121123320232100320000
1183	7	14	70000	4	192(35,22,	8, 2, 3, 0, 0, 0)	68	112213230223100320000
1184	7	14	70000	4	192(34,21,	7, 3, 3, 0, 0, 0)	66	121123320132100320000
1185	7	14	70000	4	192(36,23,	9, 1, 3, 0, 0, 0)	70	112213230232200320000
1186	7	14	70000	4	96(36,24,	7, 2, 3, 0, 0, 0)	68	112122320232200320000
1187	7	14	70000	4	96(36,24,	7, 2, 3, 0, 0, 0)	68	121212230223200320000
1188	7	14	70000	4	192(35,23,	6, 3, 3, 0, 0, 0)	66	112122320223100320000
1189	7	14	70000	4	192(35,23,	6, 3, 3, 0, 0, 0)	66	121212230232100320000
1190	7	14	70000	4	96(34,22,	5, 4, 3, 0, 0, 0)	64	112122230123100320000
1191	7	14	70000	4	96(34,22,	5, 4, 3, 0, 0, 0)	64	121212320132100320000
1192	7	14	70000	24	1152(34,21,	7, 4, 1, 1, 0, 0)	66	123212121132000320000
1193	7	14	70000	24	2304(34,21,	7, 4, 1, 1, 0, 0)	66	132122211132000320000
1194	7	14	70000	24	1152(34,21,	7, 4, 1, 1, 0, 0)	66	132122211132000320000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1195	7	14	70000	24	1152(35,22,7,5,0,1,0,0,0)	68	132122231132000320000	
1196	7	14	70000	24	2304(35,22,7,5,0,1,0,0,0)	68	123212321123000320000	
1197	7	14	70000	24	1152(35,22,7,5,0,1,0,0,0)	68	123212321132000320000	
1198	7	14	70000	8	384(33,18,10,2,3,0,0,0,0)	68	121123321023000320001	
1199	7	14	70000	8	384(33,19,8,3,3,0,0,0,0)	66	121212321023000320001	
1200	7	14	70000	8	768(33,19,8,3,3,0,0,0,0)	66	112322231032000210001	
1201	7	14	70000	8	384(31,15,11,1,4,0,0,0,0)	66	121232321012000210001	
1202	7	14	70000	8	768(34,20,9,2,3,0,0,0,0)	68	112322231023000210002	
1203	7	14	70000	8	768(34,20,9,2,3,0,0,0,0)	68	121232321023000210002	
1204	7	14	70000	8	768(34,19,11,1,3,0,0,0,0)	70	121232321023000320001	
1205	7	14	70000	8	768(33,19,8,3,3,0,0,0,0)	66	121232321032000210001	
1206	7	14	70000	8	384(32,18,7,4,3,0,0,0,0)	64	112231231032000210001	
1207	7	14	70000	8	192(30,14,10,2,4,0,0,0,0)	64	121321321012000210001	
1208	7	14	70000	8	384(33,19,8,3,3,0,0,0,0)	66	112231231023000210002	
1209	7	14	70000	8	384(33,19,8,3,3,0,0,0,0)	66	121321321023000210002	
1210	7	14	70000	8	384(33,18,10,2,3,0,0,0,0)	68	121321321023000320001	
1211	7	14	70000	8	384(32,18,7,4,3,0,0,0,0)	64	121321321032000210001	
1212	7	14	70000	8	384(34,19,11,1,3,0,0,0,0)	70	112213322023000320001	
1213	7	14	70000	8	384(34,20,9,2,3,0,0,0,0)	68	121232212023000320001	
1214	7	14	70000	8	384(34,20,9,2,3,0,0,0,0)	68	112322322032000210001	
1215	7	14	70000	8	192(32,16,12,0,4,0,0,0,0)	68	112322322012000210001	
1216	7	14	70000	8	384(35,21,10,1,3,0,0,0,0)	70	112322322023000210002	
1217	7	14	70000	8	384(35,21,10,1,3,0,0,0,0)	70	121232232023000210002	
1218	7	14	70000	8	384(34,20,9,2,3,0,0,0,0)	68	121232232032000210001	
1219	7	14	70000	4	48(36,24,4,8,0,0,0,0,0)	70	222202300131000022233	
1220	7	14	70000	48	144(40,32,0,8,0,0,0,0,0)	70	123103230323030230300	
1221	7	13	70000	2	192(36,24,6,4,2,0,0,0,0)	68	112231213032000002300	
1222	7	13	70000	2	192(36,24,6,4,2,0,0,0,0)	68	112231213032000003200	
1223	7	13	70000	2	96(34,21,6,5,2,0,0,0,0)	66	112231213032000001200	
1224	7	13	70000	2	96(34,21,6,5,2,0,0,0,0)	66	112231213032000002100	
1225	7	13	70000	2	192(36,24,6,4,2,0,0,0,0)	68	121321123032000002300	
1226	7	13	70000	2	192(36,24,6,4,2,0,0,0,0)	68	121321123032000003200	
1227	7	13	70000	2	96(34,21,6,5,2,0,0,0,0)	66	121321123032000001200	
1228	7	13	70000	2	96(34,21,6,5,2,0,0,0,0)	66	121321123032000002100	
1229	7	13	70000	2	192(36,25,4,5,2,0,0,0,0)	66	112231122032000002300	
1230	7	13	70000	2	192(36,25,4,5,2,0,0,0,0)	66	112231122032000003200	
1231	7	13	70000	2	96(34,22,4,6,2,0,0,0,0)	66	112231122032000001200	
1232	7	13	70000	2	96(34,22,4,6,2,0,0,0,0)	66	112231122032000002100	
1233	7	13	70000	2	192(36,25,4,5,2,0,0,0,0)	66	121321212032000002300	
1234	7	13	70000	2	192(36,25,4,5,2,0,0,0,0)	66	121321212032000003200	
1235	7	13	70000	2	96(34,22,4,6,2,0,0,0,0)	66	121321212032000001200	
1236	7	13	70000	2	96(34,22,4,6,2,0,0,0,0)	66	121321212032000002100	
1237	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	112231322021000002300	
1238	7	13	70000	2	192(35,22,7,4,2,0,0,0,0)	68	112231322021000003200	
1239	7	13	70000	2	96(33,19,7,5,2,0,0,0,0)	66	112231322021000002100	
1240	7	13	70000	2	192(37,25,7,3,2,0,0,0,0)	70	112231322032000002300	
1241	7	13	70000	2	384(37,25,7,3,2,0,0,0,0)	70	112231322032000003200	
1242	7	13	70000	2	192(35,22,7,4,2,0,0,0,0)	68	112231322032000002100	
1243	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	121321232021000002300	
1244	7	13	70000	2	192(35,22,7,4,2,0,0,0,0)	68	121321232021000003200	
1245	7	13	70000	2	96(33,19,7,5,2,0,0,0,0)	66	121321232021000002100	
1246	7	13	70000	2	192(37,25,7,3,2,0,0,0,0)	70	121321232032000002300	
1247	7	13	70000	2	384(37,25,7,3,2,0,0,0,0)	70	121321232032000003200	
1248	7	13	70000	2	192(35,22,7,4,2,0,0,0,0)	68	121321232032000002100	
1249	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	112231231021000003200	
1250	7	13	70000	2	96(32,18,6,6,2,0,0,0,0)	66	112231231021000002100	
1251	7	13	70000	2	384(36,24,6,4,2,0,0,0,0)	68	112231231032000003200	
1252	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	112231231032000002100	
1253	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	121321321021000003200	
1254	7	13	70000	2	96(32,18,6,6,2,0,0,0,0)	66	121321321021000002100	
1255	7	13	70000	2	384(36,24,6,4,2,0,0,0,0)	68	121321321032000003200	
1256	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	121321321032000002100	
1257	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	112322213032000001300	
1258	7	13	70000	2	192(36,23,8,3,2,0,0,0,0)	70	112322213032000002200	
1259	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	112322213032000003100	
1260	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	121232123032000001300	
1261	7	13	70000	2	192(36,23,8,3,2,0,0,0,0)	70	121232123032000002200	
1262	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	121232123032000003100	
1263	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	112322122032000001300	
1264	7	13	70000	2	192(36,24,6,4,2,0,0,0,0)	68	112322122032000002200	
1265	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	112322122032000003100	
1266	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	121232212032000001300	
1267	7	13	70000	2	192(36,24,6,4,2,0,0,0,0)	68	121232212032000002200	
1268	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	121232212032000003100	
1269	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	112322322021000002200	
1270	7	13	70000	2	96(34,19,10,3,2,0,0,0,0)	70	112322322021000003100	
1271	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	121232232021000002200	
1272	7	13	70000	2	96(34,19,10,3,2,0,0,0,0)	70	121232232021000003100	
1273	7	13	70000	2	96(34,20,8,4,2,0,0,0,0)	68	112322231021000002200	
1274	7	13	70000	2	96(33,18,9,4,2,0,0,0,0)	68	112322231021000003100	
1275	7	13	70000	2	192(36,23,8,3,2,0,0,0,0)	70	112322231032000002200	
1276	7	13	70000	2	192(35,21,9,3,2,0,0,0,0)	70	112322231032000003100	
1277	7	13	70000	2	96(34,20,8,4,2,0,0,0,0)	68	121232321021000002200	
1278	7	13	70000	2	96(33,18,9,4,2,0,0,0,0)	68	121232321021000003100	
1279	7	13	70000	2	192(36,23,8,3,2,0,0,0,0)	70	121232321032000002200	
1280	7	13	70000	2	192(35,21,9,3,2,0,0,0,0)	70	121232321032000003100	
1281	7	13	70000	4	192(33,19,8,4,1,1,0,0,0)	66	112231211221000003000	
1282	7	13	70000	4	384(35,22,8,3,1,1,0,0,0)	68	112231211232000003000	
1283	7	13	70000	4	192(33,19,8,4,1,1,0,0,0)	66	121321121221000003000	
1284	7	13	70000	4	384(35,22,8,3,1,1,0,0,0)	68	121321121232000003000	
1285	7	13	70000	4	192(35,21,9,4,0,1,0,0,0)	70	112213231232000002000	
1286	7	13	70000	4	384(36,23,8,4,0,1,0,0,0)	70	112213231232000003000	
1287	7	13	70000	4	192(35,21,9,4,0,1,0,0,0)	70	121123321232000003000	
1288	7	13	70000	4	384(36,23,8,4,0,1,0,0,0)	70	121123321232000003000	
1289	7	13	70000	4	192(34,20,9,3,1,1,0,0,0)	68	112122231132000002000	
1290	7	13	70000	4	384(35,22,8,3,1,1,0,0,0)	68	121212321132000003000	
1291	7	13	70000	4	192(34,20,9,3,1,1,0,0,0)	68	112322231121000002000	
1292	7	13	70000	4	384(35,22,8,3,1,1,0,0,0)	68	112322231121000003000	
1293	7	13	70000	4	192(33,18,9,5,0,1,0,0,0)	68	112322231132000002000	
1294	7	13	70000	4	384(34,20,8,5,0,1,0,0,0)	70	112322231132000003000	
1295	7	13	70000	4	384(35,21,9,4,0,1,0,0,0)	70	112322231132000003000	
1296	7	13	70000	4	768(36,23,8,4,0,1,0,0,0)	70	112322231132000003000	
1297	7	13	70000	4	19			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1298	7	13	70000	4	384(34,20,8,5,0,1,0,0,0,0)	68	121232321121000003000	
1299	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	121232321132000002000	
1300	7	13	70000	4	768(36,23,8,4,0,1,0,0,0,0)	70	121232321132000003000	
1301	7	13	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	112213211232000002000	
1302	7	13	70000	4	384(35,22,8,3,1,1,0,0,0,0)	68	112213211232000003000	
1303	7	13	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	121123121232000002000	
1304	7	13	70000	4	384(35,22,8,3,1,1,0,0,0,0)	68	121123121232000003000	
1305	7	13	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	112122211332000002000	
1306	7	13	70000	4	384(35,22,8,3,1,1,0,0,0,0)	68	112122211332000003000	
1307	7	13	70000	4	192(34,20,9,3,1,1,0,0,0,0)	68	121212121332000002000	
1308	7	13	70000	4	384(35,22,8,3,1,1,0,0,0,0)	68	121212121332000003000	
1309	7	13	70000	4	192(32,17,9,4,1,1,0,0,0,0)	66	112322211121000002000	
1310	7	13	70000	4	384(33,19,8,4,1,1,0,0,0,0)	66	112322211121000003000	
1311	7	13	70000	4	384(34,20,9,3,1,1,0,0,0,0)	68	112322211132000002000	
1312	7	13	70000	4	768(35,22,8,3,1,1,0,0,0,0)	68	112322211132000003000	
1313	7	13	70000	4	192(32,17,9,4,1,1,0,0,0,0)	66	121232121121000002000	
1314	7	13	70000	4	384(33,19,8,4,1,1,0,0,0,0)	66	121232121121000003000	
1315	7	13	70000	4	384(34,20,9,3,1,1,0,0,0,0)	68	121232121132000002000	
1316	7	13	70000	4	768(35,22,8,3,1,1,0,0,0,0)	68	121232121132000003000	
1317	7	13	70000	4	768(34,20,9,3,1,1,0,0,0,0)	68	112213122132000002000	
1318	7	13	70000	4	768(35,22,8,3,1,1,0,0,0,0)	68	112213122132000003000	
1319	7	13	70000	4	192(32,16,11,3,1,1,0,0,0,0)	68	112213122132000001000	
1320	7	13	70000	4	768(34,20,9,3,1,1,0,0,0,0)	68	121123212132000002000	
1321	7	13	70000	4	768(35,22,8,3,1,1,0,0,0,0)	68	121123212132000003000	
1322	7	13	70000	4	192(32,16,11,3,1,1,0,0,0,0)	68	121123212132000001000	
1323	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	112213322132000002000	
1324	7	13	70000	4	576(36,23,8,4,0,1,0,0,0,0)	70	112213322132000003000	
1325	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	121123232132000002000	
1326	7	13	70000	4	576(36,23,8,4,0,1,0,0,0,0)	70	121123232132000003000	
1327	7	13	70000	4	384(36,23,8,4,0,1,0,0,0,0)	70	112322122232000002000	
1328	7	13	70000	4	576(37,25,7,4,0,1,0,0,0,0)	70	112322122232000003000	
1329	7	13	70000	4	384(36,23,8,4,0,1,0,0,0,0)	70	121232212232000002000	
1330	7	13	70000	4	576(37,25,7,4,0,1,0,0,0,0)	70	121232212232000003000	
1331	7	13	70000	4	768(33,19,8,4,1,1,0,0,0,0)	66	123212121121000003000	
1332	7	13	70000	4	192(30,13,11,4,1,1,0,0,0,0)	66	123212121121000001000	
1333	7	13	70000	4	768(32,17,9,4,1,1,0,0,0,0)	66	123212121121000002000	
1334	7	13	70000	4	1344(35,22,8,3,1,1,0,0,0,0)	68	123212121132000003000	
1335	7	13	70000	4	384(32,16,11,3,1,1,0,0,0,0)	68	123212121132000001000	
1336	7	13	70000	4	1344(34,20,9,3,1,1,0,0,0,0)	68	123212121132000002000	
1337	7	13	70000	4	768(33,19,8,4,1,1,0,0,0,0)	66	132122211121000003000	
1338	7	13	70000	4	192(30,13,11,4,1,1,0,0,0,0)	66	132122211121000001000	
1339	7	13	70000	4	768(32,17,9,4,1,1,0,0,0,0)	66	132122211121000002000	
1340	7	13	70000	4	1152(35,22,8,3,1,1,0,0,0,0)	68	132122211132000003000	
1341	7	13	70000	4	384(32,16,11,3,1,1,0,0,0,0)	68	132122211132000001000	
1342	7	13	70000	4	1344(34,20,9,3,1,1,0,0,0,0)	68	132122211132000002000	
1343	7	13	70000	4	576(36,23,8,4,0,1,0,0,0,0)	70	123212121332000003000	
1344	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	123212121332000002000	
1345	7	13	70000	4	576(36,23,8,4,0,1,0,0,0,0)	70	132122211332000003000	
1346	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	132122211332000002000	
1347	7	13	70000	4	192(35,22,8,3,1,1,0,0,0,0)	68	123121121232000003000	
1348	7	13	70000	4	96(34,20,9,3,1,1,0,0,0,0)	68	123121121232000002000	
1349	7	13	70000	4	192(35,22,8,3,1,1,0,0,0,0)	68	132211211232000003000	
1350	7	13	70000	4	96(34,20,9,3,1,1,0,0,0,0)	68	132211211232000002000	
1351	7	13	70000	4	384(34,20,8,5,0,1,0,0,0,0)	68	123321121221000003000	
1352	7	13	70000	4	192(33,18,9,5,0,1,0,0,0,0)	68	123321121221000002000	
1353	7	13	70000	4	768(36,23,8,4,0,1,0,0,0,0)	70	123321121232000003000	
1354	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	123321121232000002000	
1355	7	13	70000	4	384(34,20,8,5,0,1,0,0,0,0)	68	132231211221000003000	
1356	7	13	70000	4	192(33,18,9,5,0,1,0,0,0,0)	68	132231211221000002000	
1357	7	13	70000	4	576(36,23,8,4,0,1,0,0,0,0)	70	132231211232000003000	
1358	7	13	70000	4	384(35,21,9,4,0,1,0,0,0,0)	70	132231211232000002000	
1359	7	13	70000	4	288(36,23,8,4,0,1,0,0,0,0)	70	123212212232000002000	
1360	7	13	70000	4	384(37,25,7,4,0,1,0,0,0,0)	70	123212212232000003000	
1361	7	13	70000	4	288(36,23,8,4,0,1,0,0,0,0)	70	132122122232000002000	
1362	7	13	70000	4	384(37,25,7,4,0,1,0,0,0,0)	70	132122122232000003000	
1363	7	13	70000	4	384(33,18,9,5,0,1,0,0,0,0)	68	123212321121000002000	
1364	7	13	70000	4	576(34,20,8,5,0,1,0,0,0,0)	68	123212321121000003000	
1365	7	13	70000	4	768(35,21,9,4,0,1,0,0,0,0)	70	123212321132000002000	
1366	7	13	70000	4	1152(36,23,8,4,0,1,0,0,0,0)	70	123212321132000003000	
1367	7	13	70000	4	384(33,18,9,5,0,1,0,0,0,0)	68	132122231121000002000	
1368	7	13	70000	4	576(34,20,8,5,0,1,0,0,0,0)	68	132122231121000003000	
1369	7	13	70000	4	768(35,21,9,4,0,1,0,0,0,0)	70	132122231132000002000	
1370	7	13	70000	4	960(36,23,8,4,0,1,0,0,0,0)	70	132122231132000003000	
1371	7	13	70000	4	384(34,19,10,4,0,1,0,0,0,0)	70	213312221131000003000	
1372	7	13	70000	4	192(33,17,11,4,0,1,0,0,0,0)	70	213312221131000002000	
1373	7	13	70000	4	768(35,21,9,4,0,1,0,0,0,0)	70	213312221122000003000	
1374	7	13	70000	4	384(34,19,10,4,0,1,0,0,0,0)	70	213312221122000002000	
1375	7	13	70000	4	384(34,19,10,4,0,1,0,0,0,0)	70	231132221131000003000	
1376	7	13	70000	4	192(33,17,11,4,0,1,0,0,0,0)	70	231132221131000002000	
1377	7	13	70000	4	96(35,21,9,4,0,1,0,0,0,0)	70	213221222131000003000	
1378	7	13	70000	4	192(36,23,8,4,0,1,0,0,0,0)	70	231221222122000003000	
1379	7	13	70000	4	96(35,21,9,4,0,1,0,0,0,0)	70	231221222122000002000	
1380	7	13	70000	4	192(33,17,11,4,0,1,0,0,0,0)	70	222131311231000002000	
1381	7	13	70000	4	384(34,19,10,4,0,1,0,0,0,0)	70	222131311231000003000	
1382	7	13	70000	4	192(34,19,10,4,0,1,0,0,0,0)	70	222131311222000002000	
1383	7	13	70000	4	288(35,21,9,4,0,1,0,0,0,0)	70	222131311222000003000	
1384	7	13	70000	4	384(34,19,10,4,0,1,0,0,0,0)	70	222222131131000002000	
1385	7	13	70000	4	576(35,21,9,4,0,1,0,0,0,0)	70	222222131131000003000	
1386	7	13	70000	4	768(35,21,9,4,0,1,0,0,0,0)	70	222222311122000002000	
1387	7	13	70000	4	960(36,23,8,4,0,1,0,0,0,0)	70	222222311122000003000	
1388	7	13	70000	4	384(34,19,10,4,0,1,0,0,0,0)	70	222222311131000002000	
1389	7	13	70000	4	576(35,21,9,4,0,1,0,0,0,0)	70	222222311131000003000	
1390	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	222131301231000002000	
1391	7	13	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	222131301222000002000	
1392	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	2221311032220000031000	
1393	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	222131103222000002000	
1394	7	13	70000	2	96(33,17,11,3,2,0,0,0,0,0)	70	2221311032310000031000	
1395	7	13	70000	2	96(33,18,			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1401	7	13	70000	2	96(36,23,7,5,1,0,0,0,0,0,0)	70	22222301022000031070	
1402	7	13	70000	2	96(32,18,6,6,2,0,0,0,0,0,0)	66	137211210010000013770	
1403	7	13	70000	2	96(33,18,9,4,2,0,0,0,0,0,0)	68	171321210010000073730	
1404	7	13	70000	2	384(34,22,4,6,2,0,0,0,0,0,0)	66	137211210020000013220	
1405	7	13	70000	2	384(35,22,7,4,2,0,0,0,0,0,0)	68	121321210020000073230	
1406	7	13	70000	2	384(35,24,3,6,2,0,0,0,0,0,0)	66	137711210030000013720	
1407	7	13	70000	2	384(36,24,6,4,2,0,0,0,0,0,0)	68	121371210030000023230	
1408	7	13	70000	2	192(34,20,8,4,2,0,0,0,0,0,0)	68	132211370010000013230	
1409	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0,0)	70	121321320010000023220	
1410	7	13	70000	2	768(36,24,6,4,2,0,0,0,0,0,0)	68	132211320020000013230	
1411	7	13	70000	2	384(36,23,8,3,2,0,0,0,0,0,0)	70	121321320070000023270	
1412	7	13	70000	2	768(37,26,5,4,2,0,0,0,0,0,0)	68	132211320030000013730	
1413	7	13	70000	2	384(37,25,7,3,2,0,0,0,0,0,0)	70	121321320030000073220	
1414	7	13	70000	2	48(34,27,4,6,2,0,0,0,0,0,0)	66	121212370010000012730	
1415	7	13	70000	2	192(36,26,2,6,2,0,0,0,0,0,0)	66	121712320020000012730	
1416	7	13	70000	2	192(37,28,1,6,2,0,0,0,0,0,0)	66	121212320030000012730	
1417	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0,0)	70	222311220010000013230	
1418	7	13	70000	2	384(36,23,8,3,2,0,0,0,0,0,0)	70	222311220070000013730	
1419	7	13	70000	2	384(37,25,7,3,2,0,0,0,0,0,0)	70	222311270030000013730	
1420	7	13	70000	2	96(33,18,9,4,2,0,0,0,0,0,0)	68	222311310010000013720	
1421	7	13	70000	2	480(35,22,7,4,2,0,0,0,0,0,0)	68	222311310020000013720	
1422	7	13	70000	2	480(36,24,6,4,2,0,0,0,0,0,0)	68	222311310030000013770	
1423	7	13	70000	2	384(34,20,9,2,3,0,0,0,0,0,0)	68	1122132130370100002000	
1424	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0,0)	68	1122132130370100003000	
1425	7	13	70000	2	96(32,16,11,2,3,0,0,0,0,0,0)	68	1122132130370100001000	
1426	7	13	70000	2	384(35,21,10,1,3,0,0,0,0,0,0)	70	121123123032070007000	
1427	7	13	70000	2	384(36,23,9,1,3,0,0,0,0,0,0)	70	121123123032020003000	
1428	7	13	70000	2	96(33,17,12,1,3,0,0,0,0,0,0)	70	121173123032020001000	
1429	7	13	70000	2	384(34,21,7,3,3,0,0,0,0,0,0)	66	117213127032010007000	
1430	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0,0)	66	1122131220320100003000	
1431	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0,0)	66	1122131270370100001000	
1432	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0,0)	68	121123217032070002000	
1433	7	13	70000	2	384(36,24,7,2,3,0,0,0,0,0,0)	68	1211237170320200003000	
1434	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0,0)	68	121123217032070001000	
1435	7	13	70000	2	192(35,22,8,2,3,0,0,0,0,0,0)	68	112713327021070007000	
1436	7	13	70000	2	288(36,24,7,2,3,0,0,0,0,0,0)	68	112213322071020003000	
1437	7	13	70000	2	192(35,21,10,1,3,0,0,0,0,0,0)	70	112213372037010007000	
1438	7	13	70000	2	288(36,23,9,1,3,0,0,0,0,0,0)	70	1122133220320100003000	
1439	7	13	70000	2	192(35,21,10,1,3,0,0,0,0,0,0)	70	121173232021030002000	
1440	7	13	70000	2	288(36,23,9,1,3,0,0,0,0,0,0)	70	121123232021030003000	
1441	7	13	70000	2	192(35,23,6,3,3,0,0,0,0,0,0)	66	117213231021020003000	
1442	7	13	70000	2	96(34,21,7,3,3,0,0,0,0,0,0)	66	117213731071020007000	
1443	7	13	70000	2	192(35,27,8,2,3,0,0,0,0,0,0)	68	1122132310320100003000	
1444	7	13	70000	2	96(34,20,9,2,3,0,0,0,0,0,0)	68	112213231037010007000	
1445	7	13	70000	2	192(35,22,8,2,3,0,0,0,0,0,0)	68	121123321071030003000	
1446	7	13	70000	2	96(34,20,9,2,3,0,0,0,0,0,0)	68	121123321021030002000	
1447	7	13	70000	2	192(36,23,9,1,3,0,0,0,0,0,0)	70	1211233710370200003000	
1448	7	13	70000	2	96(35,21,10,1,3,0,0,0,0,0,0)	70	121123321032020007000	
1449	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0,0)	68	1171277130370200002000	
1450	7	13	70000	2	384(36,24,7,2,3,0,0,0,0,0,0)	68	1121222130320200003000	
1451	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0,0)	68	1121722130320700001000	
1452	7	13	70000	2	384(34,21,7,3,3,0,0,0,0,0,0)	66	1212171230370100002000	
1453	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0,0)	66	1212121230320100003000	
1454	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0,0)	66	1212121230370100001000	
1455	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0,0)	66	117127127032020002000	
1456	7	13	70000	2	384(36,25,5,3,3,0,0,0,0,0,0)	66	1171272122032070003000	
1457	7	13	70000	2	96(33,19,8,3,3,0,0,0,0,0,0)	66	112172127032020001000	
1458	7	13	70000	2	384(34,27,5,4,3,0,0,0,0,0,0)	64	1212122120320100002000	
1459	7	13	70000	2	384(35,24,4,4,3,0,0,0,0,0,0)	64	1212122120320100001000	
1460	7	13	70000	2	96(32,18,7,4,3,0,0,0,0,0,0)	64	1212122120320100001000	
1461	7	13	70000	2	192(35,27,8,2,3,0,0,0,0,0,0)	68	117127372071030007000	
1462	7	13	70000	2	288(36,24,7,2,3,0,0,0,0,0,0)	68	112127322071030003000	
1463	7	13	70000	2	192(36,23,9,1,3,0,0,0,0,0,0)	70	117122327032070002000	
1464	7	13	70000	2	288(37,25,8,1,3,0,0,0,0,0,0)	70	1171223220320200003000	
1465	7	13	70000	2	192(35,23,6,3,3,0,0,0,0,0,0)	66	121212732071020007000	
1466	7	13	70000	2	288(36,25,5,3,3,0,0,0,0,0,0)	66	121212237021070003000	
1467	7	13	70000	2	192(35,22,8,2,3,0,0,0,0,0,0)	68	121217732037010007000	
1468	7	13	70000	2	288(36,24,7,2,3,0,0,0,0,0,0)	68	1212172320370100003000	
1469	7	13	70000	2	192(35,23,6,3,3,0,0,0,0,0,0)	66	117127731021030003000	
1470	7	13	70000	2	96(34,21,7,3,3,0,0,0,0,0,0)	66	112122231021030002000	
1471	7	13	70000	2	192(36,24,7,2,3,0,0,0,0,0,0)	68	1121227310320700003000	
1472	7	13	70000	2	96(35,22,8,2,3,0,0,0,0,0,0)	68	112122231032020007000	
1473	7	13	70000	2	192(35,24,4,4,3,0,0,0,0,0,0)	64	1212123710210700003000	
1474	7	13	70000	2	96(34,22,5,4,3,0,0,0,0,0,0)	64	121212321021070002000	
1475	7	13	70000	2	192(35,23,6,3,3,0,0,0,0,0,0)	66	1212123210320100003000	
1476	7	13	70000	2	96(34,21,7,3,3,0,0,0,0,0,0)	66	121212371032010007000	
1477	7	13	70000	4	48(36,24,4,8,0,0,0,0,0,0,0)	70	123230103312002002720	
1478	7	13	70000	4	96(38,28,2,8,0,0,0,0,0,0,0)	70	123230103312002003300	
1479	7	13	70000	8	48(36,24,4,8,0,0,0,0,0,0,0)	70	22272020771000007770	
1480	7	13	70000	8	192(38,28,2,8,0,0,0,0,0,0,0)	70	22272020222000002770	
1481	7	13	70000	8	192(39,30,1,8,0,0,0,0,0,0,0)	70	77722020773000007770	
1482	7	13	70000	2	48(34,22,4,6,2,0,0,0,0,0,0)	66	121123123010077070000	
1483	7	13	70000	2	96(35,24,3,6,2,0,0,0,0,0,0)	66	121123123010027030000	
1484	7	13	70000	2	96(36,24,6,4,2,0,0,0,0,0,0)	68	121173123020033020000	
1485	7	13	70000	2	192(37,26,5,4,2,0,0,0,0,0,0)	68	171173127020003303000	
1486	7	13	70000	2	96(35,27,7,4,2,0,0,0,0,0,0)	68	121232173010032020000	
1487	7	13	70000	2	192(36,24,6,4,2,0,0,0,0,0,0)	68	121232123010032030000	
1488	7	13	70000	2	96(36,23,8,3,2,0,0,0,0,0,0)	70	121123232020037020000	
1489	7	13	70000	2	192(37,25,7,3,2,0,0,0,0,0,0)	70	171123237020037030000	
1490	7	13	70000	2	48(34,22,4,6,2,0,0,0,0,0,0)	66	117122122070033010000	
1491	7	13	70000	2	192(36,26,2,6,2,0,0,0,0,0,0)	66	117177122070033020000	
1492	7	13	70000	2	192(37,28,1,6,2,0,0,0,0,0,0)	66	112127172020033030000	
1493	7	13	70000	2	192(34,22,4,6,2,0,0,0,0,0,0)	66	211132137010072070000	
1494	7	13	70000	2	192(35,24,3,6,2,0,0,0,0,0,0)	66	211137132010022030000	
1495								

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1504	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	112213210232200000010	
1505	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0)	68	112213210232200000020	
1506	7	13	70000	2	384(36,24,7,2,3,0,0,0,0,0)	68	112213210232200000030	
1507	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	121123120232100000010	
1508	7	13	70000	2	384(34,21,7,3,3,0,0,0,0,0)	66	121123120232100000020	
1509	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0)	66	121123120232100000030	
1510	7	13	70000	2	96(32,16,11,2,3,0,0,0,0,0)	68	112213320121300000010	
1511	7	13	70000	2	384(34,20,9,2,3,0,0,0,0,0)	68	112213320121300000020	
1512	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0)	68	112213320121300000030	
1513	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	121123230121200000010	
1514	7	13	70000	2	384(34,21,7,3,3,0,0,0,0,0)	66	121123230121200000020	
1515	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0)	66	121123230121200000030	
1516	7	13	70000	2	96(33,17,12,1,3,0,0,0,0,0)	70	112213320132200000010	
1517	7	13	70000	2	384(35,21,10,1,3,0,0,0,0,0)	70	112213320132200000020	
1518	7	13	70000	2	384(36,23,9,1,3,0,0,0,0,0)	70	112213320132200000030	
1519	7	13	70000	2	96(32,16,11,2,3,0,0,0,0,0)	68	121123230132100000010	
1520	7	13	70000	2	384(34,20,9,2,3,0,0,0,0,0)	68	121123230132100000020	
1521	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0)	68	121123230132100000030	
1522	7	13	70000	2	96(33,17,12,1,3,0,0,0,0,0)	70	112213120332200000010	
1523	7	13	70000	2	384(35,21,10,1,3,0,0,0,0,0)	70	112213120332200000020	
1524	7	13	70000	2	384(36,23,9,1,3,0,0,0,0,0)	70	112213120332200000030	
1525	7	13	70000	2	96(32,16,11,2,3,0,0,0,0,0)	68	121123210332100000010	
1526	7	13	70000	2	384(34,20,9,2,3,0,0,0,0,0)	68	121123210332100000020	
1527	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0)	68	121123210332100000030	
1528	7	13	70000	2	480(36,23,9,1,3,0,0,0,0,0)	70	112213230221300000030	
1529	7	13	70000	2	96(33,17,12,1,3,0,0,0,0,0)	70	112213230221300000010	
1530	7	13	70000	2	480(35,21,10,1,3,0,0,0,0,0)	70	112213230221300000020	
1531	7	13	70000	2	480(36,24,7,2,3,0,0,0,0,0)	68	121123320221200000030	
1532	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	121123320221200000010	
1533	7	13	70000	2	480(35,22,8,2,3,0,0,0,0,0)	68	121123320221200000020	
1534	7	13	70000	2	480(36,23,9,1,3,0,0,0,0,0)	70	121123320232100000030	
1535	7	13	70000	2	96(33,17,12,1,3,0,0,0,0,0)	70	121123320232100000010	
1536	7	13	70000	2	480(35,21,10,1,3,0,0,0,0,0)	70	121123320232100000020	
1537	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	112122210332200000010	
1538	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0)	68	112122210332200000020	
1539	7	13	70000	2	384(36,24,7,2,3,0,0,0,0,0)	68	112122210332200000030	
1540	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	121212120332100000010	
1541	7	13	70000	2	384(34,21,7,3,3,0,0,0,0,0)	66	121212120332100000020	
1542	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0)	66	121212120332100000030	
1543	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	112122320221300000010	
1544	7	13	70000	2	480(35,22,8,2,3,0,0,0,0,0)	68	112122320221300000020	
1545	7	13	70000	2	480(36,24,7,2,3,0,0,0,0,0)	68	112122320221300000030	
1546	7	13	70000	2	96(33,19,8,3,3,0,0,0,0,0)	66	121212230221200000010	
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1548	7	13	70000	2	480(36,25,5,3,3,0,0,0,0,0)	66	121212230221200000030	
1549	7	13	70000	2	96(34,19,11,1,3,0,0,0,0,0)	70	112122320232200000010	
1550	7	13	70000	2	480(36,23,9,1,3,0,0,0,0,0)	70	112122320232200000020	
1551	7	13	70000	2	480(37,25,8,1,3,0,0,0,0,0)	70	112122320232200000030	
1552	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	121212230232100000010	
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1555	7	13	70000	2	96(33,19,8,3,3,0,0,0,0,0)	66	112122120232200000010	
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1557	7	13	70000	2	384(36,25,5,3,3,0,0,0,0,0)	66	112122120232200000030	
1558	7	13	70000	2	96(32,18,7,4,3,0,0,0,0,0)	64	121212210232100000010	
1559	7	13	70000	2	384(34,22,5,4,3,0,0,0,0,0)	64	121212210232100000020	
1560	7	13	70000	2	384(35,24,4,4,3,0,0,0,0,0)	64	121212210232100000030	
1561	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	112122230121300000010	
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1563	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0)	66	112122230121300000030	
1564	7	13	70000	2	96(32,18,7,4,3,0,0,0,0,0)	64	121212320121200000010	
1565	7	13	70000	2	384(34,22,5,4,3,0,0,0,0,0)	64	121212320121200000020	
1566	7	13	70000	2	384(35,24,4,4,3,0,0,0,0,0)	64	121212320121200000030	
1567	7	13	70000	2	96(33,18,10,2,3,0,0,0,0,0)	68	112122230132200000010	
1568	7	13	70000	2	384(35,22,8,2,3,0,0,0,0,0)	68	112122230132200000020	
1569	7	13	70000	2	384(36,24,7,2,3,0,0,0,0,0)	68	112122230132200000030	
1570	7	13	70000	2	96(32,17,9,3,3,0,0,0,0,0)	66	121212320132100000010	
1571	7	13	70000	2	384(34,21,7,3,3,0,0,0,0,0)	66	121212320132100000020	
1572	7	13	70000	2	384(35,23,6,3,3,0,0,0,0,0)	66	121212320132100000030	
1573	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	213312220010203020020	
1574	7	13	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	213312220010203030010	
1575	7	13	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	213221220010203010030	
1576	7	13	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	213221220010203020020	
1577	7	13	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	213221220010203030010	
1578	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	213221220020302010030	
1579	7	13	70000	1	48(36,23,7,5,1,0,0,0,0,0)	70	213221220020302020020	
1580	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	222311220010303020020	
1581	7	13	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	222311220010303030010	
1582	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	222311220020202020020	
1583	7	13	70000	2	96(34,22,4,6,2,0,0,0,0,0)	66	112213122020003010200	
1584	7	13	70000	2	96(34,22,4,6,2,0,0,0,0,0)	66	112213122030002010200	
1585	7	13	70000	2	192(36,25,4,5,2,0,0,0,0,0)	66	112213122020003020300	
1586	7	13	70000	2	192(36,25,4,5,2,0,0,0,0,0)	66	121212123020003030200	
1587	7	13	70000	2	96(34,22,4,6,2,0,0,0,0,0)	66	112213122020003020100	
1588	7	13	70000	2	96(34,22,4,6,2,0,0,0,0,0)	66	112213122030002020100	
1589	7	13	70000	2	192(36,25,4,5,2,0,0,0,0,0)	66	112213122020003030200	
1590	7	13	70000	2	192(36,25,4,5,2,0,0,0,0,0)	66	112213122030002030200	
1591	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	112322122020003010300	
1592	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	121212232010003030200	
1593	7	13	70000	2	192(36,24,6,4,2,0,0,0,0,0)	68	112322122020003020200	
1594	7	13	70000	2	192(36,24,6,4,2,0,0,0,0,0)	68	112322122030002020200	
1595	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	112322122030002030100	
1596	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	112322122030002030100	
1597	7	13	70000	2	192(34,21,6,5,2,0,0,0,0,0)	66	211312132020003010200	
1598	7	13	70000	2	192(34,21,6,5,2,0,0,0,0,0)	66	211312132030002010200	
1599	7	13	70000	2	48(32,18,6,6,2,0,0,0,0,0)	66	211312132010002010200	
1600	7	13	70000	2	96(32,18,6,6,2,0,0,0,0,0)	66	211312132010002020100	
1601	7	13	70000	2	144(36,24,6,4,2,0,0,0,0,0)	68	211312132020003020300	
1602	7	13	70000	2	288(36,24,6,4,2,0,0,0,0,0)	68		

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1607	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	211223132020003010300	
1608	7	13	70000	2	192(35,21,9,3,2,0,0,0,0)	70	211312223010003030200	
1609	7	13	70000	2	96(33,18,9,4,2,0,0,0,0)	68	211312223010003020100	
1610	7	13	70000	2	192(36,23,8,3,2,0,0,0,0)	70	211223132020003020200	
1611	7	13	70000	2	288(36,23,8,3,2,0,0,0,0)	70	211223132030002020200	
1612	7	13	70000	2	192(34,20,8,4,2,0,0,0,0)	68	211312223020002020100	
1613	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	211223132020003030100	
1614	7	13	70000	2	192(35,21,9,3,2,0,0,0,0)	70	211223132030002030100	
1615	7	13	70000	2	96(33,18,9,4,2,0,0,0,0)	68	211312223030001020100	
1616	7	13	70000	1	48(34,20,8,4,2,0,0,0,0)	68	213112203022010020020	
1617	7	13	70000	1	96(36,24,6,4,2,0,0,0,0)	68	213112203022010030030	
1618	7	13	70000	1	48(36,23,8,3,2,0,0,0,0)	70	213112203031020030030	
1619	7	13	70000	1	48(35,21,9,3,2,0,0,0,0)	70	213112302013020020030	
1620	7	13	70000	1	48(35,21,9,3,2,0,0,0,0)	70	213112302013020030020	
1621	7	13	70000	1	48(35,22,7,4,2,0,0,0,0)	68	213112302020100200300	
1622	7	13	70000	1	48(35,22,7,4,2,0,0,0,0)	68	213112302020100300200	
1623	7	13	70000	1	48(35,21,9,3,2,0,0,0,0)	70	213112302031020030020	
1624	7	13	70000	1	48(36,23,8,3,2,0,0,0,0)	70	222113202022010030030	
1625	7	13	70000	1	24(30,16,4,8,2,0,0,0,0)	66	121121210010020012020	
1626	7	13	70000	1	48(32,18,6,6,2,0,0,0,0)	66	121121210010020023030	
1627	7	13	70000	1	24(30,16,4,8,2,0,0,0,0)	66	121121210020010012020	
1628	7	13	70000	1	48(32,18,6,6,2,0,0,0,0)	66	121121210020010023030	
1629	7	13	70000	1	48(32,19,4,7,2,0,0,0,0)	66	121121210020030012020	
1630	7	13	70000	1	96(34,21,6,5,2,0,0,0,0)	66	121121210020030023030	
1631	7	13	70000	1	48(32,19,4,7,2,0,0,0,0)	66	121121210030020012020	
1632	7	13	70000	1	96(34,21,6,5,2,0,0,0,0)	66	121121210030020023030	
1633	7	13	70000	1	48(32,18,6,6,2,0,0,0,0)	66	121121320010020012030	
1634	7	13	70000	1	48(33,19,7,5,2,0,0,0,0)	66	121121320010020023020	
1635	7	13	70000	1	48(32,18,6,6,2,0,0,0,0)	66	121121320020010012030	
1636	7	13	70000	1	48(33,19,7,5,2,0,0,0,0)	66	121121320020010023020	
1637	7	13	70000	1	96(34,21,6,5,2,0,0,0,0)	66	121121320020030012030	
1638	7	13	70000	1	96(35,22,7,4,2,0,0,0,0)	68	121121320020030023020	
1639	7	13	70000	1	96(34,21,6,5,2,0,0,0,0)	66	121121320030020012030	
1640	7	13	70000	1	96(35,22,7,4,2,0,0,0,0)	68	121121320030020023020	
1641	7	13	70000	1	48(34,22,3,8,1,0,0,0,0)	68	121123320010020012030	
1642	7	13	70000	1	48(35,23,4,7,1,0,0,0,0)	68	121123320010020023020	
1643	7	13	70000	1	96(36,25,3,7,1,0,0,0,0)	68	121123320020030012030	
1644	7	13	70000	1	96(37,26,4,6,1,0,0,0,0)	68	121123320020030023020	
1645	7	13	70000	1	48(34,22,3,8,1,0,0,0,0)	68	121123320020010012030	
1646	7	13	70000	1	48(35,23,4,7,1,0,0,0,0)	68	121123320020010023020	
1647	7	13	70000	1	96(36,25,3,7,1,0,0,0,0)	68	121123320030020012030	
1648	7	13	70000	1	96(37,26,4,6,1,0,0,0,0)	68	121123320030020023020	
1649	7	13	70000	1	48(33,20,4,8,1,0,0,0,0)	68	121232210010030012020	
1650	7	13	70000	1	96(35,22,6,4,1,0,0,0,0)	68	121232210010030023030	
1651	7	13	70000	1	96(34,22,3,8,1,0,0,0,0)	68	121232210020020012020	
1652	7	13	70000	1	192(36,24,5,6,1,0,0,0,0)	68	121232210020020023030	
1653	7	13	70000	1	48(33,20,4,8,1,0,0,0,0)	68	121232210030010012020	
1654	7	13	70000	1	96(35,22,6,4,1,0,0,0,0)	68	121232210030010023030	
1655	7	13	70000	1	96(35,22,6,4,1,0,0,0,0)	68	121232320010030012030	
1656	7	13	70000	1	96(36,23,7,5,1,0,0,0,0)	70	121232320010030023020	
1657	7	13	70000	1	192(36,24,5,6,1,0,0,0,0)	68	121232320020020012030	
1658	7	13	70000	1	192(37,25,6,5,1,0,0,0,0)	70	121232320020020023020	
1659	7	13	70000	1	96(35,22,6,4,1,0,0,0,0)	68	121232320030010012030	
1660	7	13	70000	1	96(36,23,7,5,1,0,0,0,0)	70	121232320030010023020	
1661	7	13	70000	1	48(33,20,4,8,1,0,0,0,0)	68	132122210010020013020	
1662	7	13	70000	1	48(34,21,5,7,1,0,0,0,0)	68	132122210010020022030	
1663	7	13	70000	1	48(33,20,4,8,1,0,0,0,0)	68	132122210020010013020	
1664	7	13	70000	1	48(34,21,5,7,1,0,0,0,0)	68	132122210020010022030	
1665	7	13	70000	1	96(35,23,4,7,1,0,0,0,0)	68	132122210020030013020	
1666	7	13	70000	1	96(36,24,5,6,1,0,0,0,0)	68	132122210020030022030	
1667	7	13	70000	1	96(35,23,4,7,1,0,0,0,0)	68	132122210030020013020	
1668	7	13	70000	1	96(36,24,5,6,1,0,0,0,0)	68	132122210030020022030	
1669	7	13	70000	1	96(35,22,6,4,1,0,0,0,0)	68	132122320010020013030	
1670	7	13	70000	1	48(35,22,6,4,1,0,0,0,0)	68	132122320010020022020	
1671	7	13	70000	1	96(35,22,6,4,1,0,0,0,0)	68	132122320020010013030	
1672	7	13	70000	1	48(35,22,6,4,1,0,0,0,0)	68	132122320020010022020	
1673	7	13	70000	1	192(37,25,6,5,1,0,0,0,0)	70	132122320020030013030	
1674	7	13	70000	1	96(37,25,6,5,1,0,0,0,0)	70	132122320020030022020	
1675	7	13	70000	1	192(37,25,6,5,1,0,0,0,0)	70	132122320030020013030	
1676	7	13	70000	1	96(37,25,6,5,1,0,0,0,0)	70	132122320030020022020	
1677	7	13	70000	1	48(33,18,8,6,1,0,0,0,0)	68	132231210010030013020	
1678	7	13	70000	1	48(34,19,9,5,1,0,0,0,0)	70	132231210010030022030	
1679	7	13	70000	1	96(34,20,7,6,1,0,0,0,0)	68	132231210020020013020	
1680	7	13	70000	1	96(35,21,8,5,1,0,0,0,0)	70	132231210020020022030	
1681	7	13	70000	1	48(33,18,8,6,1,0,0,0,0)	68	132231210030010013020	
1682	7	13	70000	1	48(34,19,9,5,1,0,0,0,0)	70	132231210030010022030	
1683	7	13	70000	1	48(34,20,7,6,1,0,0,0,0)	68	231132220010020012030	
1684	7	13	70000	1	48(35,21,8,5,1,0,0,0,0)	70	231132220010020023020	
1685	7	13	70000	1	96(36,23,7,5,1,0,0,0,0)	70	231132220020030012030	
1686	7	13	70000	1	96(34,20,7,6,1,0,0,0,0)	68	231132220020010012030	
1687	7	13	70000	1	96(35,21,8,5,1,0,0,0,0)	70	231132220020010023020	
1688	7	13	70000	1	144(36,23,7,5,1,0,0,0,0)	70	231132220030020012030	
1689	7	13	70000	1	96(33,19,6,7,1,0,0,0,0)	68	231132310010020012020	
1690	7	13	70000	1	144(35,21,8,5,1,0,0,0,0)	70	231132310010020023030	
1691	7	13	70000	1	144(35,22,6,6,1,0,0,0,0)	68	231132310020030012020	
1692	7	13	70000	1	96(33,19,6,7,1,0,0,0,0)	68	231132310020010012020	
1693	7	13	70000	1	144(35,21,8,5,1,0,0,0,0)	70	231132310020010023030	
1694	7	13	70000	1	144(35,22,6,6,1,0,0,0,0)	68	231132310030020012020	
1695	7	13	70000	1	48(34,20,7,6,1,0,0,0,0)	68	231221220010030012030	
1696	7	13	70000	1	48(35,21,8,5,1,0,0,0,0)	70	231221220010030023020	
1697	7	13	70000	1	96(35,22,6,6,1,0,0,0,0)	68	231221220020020012030	
1698	7	13	70000	1	96(36,23,7,5,1,0,0,0,0)	70	231221220020020023020	
1699	7	13	70000	1	48(34,20,7,6,1,0,0,0,0)	68	231221220030010012030	
1700	7	13	70000	1	48(35,21,8,5,1,0,0,0,0)	70	231221220030010023020	
1701	7	13	70000	1	96(35,21,8,5,1,0,0,0,0)	70	231221310010030023030	
1702	7	13	70000	1	48(33,19,6,7,1,0,0,0,0)	68	231221310010030012020	
1703	7	13	70000	1	192(36,23,7,5,1,0,0,0,0)	70	231221310020020023030	
1704	7	13	70000	1	96(34,21,5,7,1,0,0,0,0)	68	231221310020020012020	
1705	7	13	70000	1	96(35,21,8,5,1,0,0,0,0)	70	231221310030010023030	
1706	7	13	70000	1	48(33,19,6,7,1,0,0,0,0)	68	231221310030010012020	
1707	7	13	70000	1	48(34,20,7,6,1,0,0,0,0)	68	222131220010020013030	
1708	7	13	70000	1	48(34,20,7,6,1,0,0,0,0)	68	222131220010020022020	
1709	7	13	70000	1	96(36,23,7,5,1,0,0,0,0)	70	222131220020030013030	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1710	7	13	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	222131220020030022020	
1711	7	13	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	222131220020010013030	
1712	7	13	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	222131220020010022020	
1713	7	13	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	222131220030020013030	
1714	7	13	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	222131220030020022020	
1715	7	13	70000	1	48(33,19,6,7,1,0,0,0,0,0)	68	222131310010020013020	
1716	7	13	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	222131310010020022030	
1717	7	13	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	222131310020030013020	
1718	7	13	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	222131310020030022030	
1719	7	13	70000	1	48(33,19,6,7,1,0,0,0,0,0)	68	222131310020010013020	
1720	7	13	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	222131310020010022030	
1721	7	13	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	222131310030020013020	
1722	7	13	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	222131310030020022030	
1723	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	22222310010030013020	
1724	7	13	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	22222310020020013020	
1725	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	22222310030010013020	
1726	7	13	70000	4	192(33,18,9,4,2,0,0,0,0,0)	68	123320121021010003200	
1727	7	13	70000	4	192(34,19,10,3,2,0,0,0,0,0)	70	123320212021010003200	
1728	7	13	70000	4	192(34,19,10,3,2,0,0,0,0,0)	70	132230711021020003200	
1729	7	13	70000	4	192(33,17,11,3,2,0,0,0,0,0)	70	132320122021010002200	
1730	7	13	70000	4	384(35,21,9,3,2,0,0,0,0,0)	70	132320122021010003300	
1731	7	13	70000	4	96(32,16,10,4,2,0,0,0,0,0)	68	132320211071010002200	
1732	7	13	70000	4	192(34,20,8,4,2,0,0,0,0,0)	68	132320211021010003300	
1733	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	123121320021030002030	
1734	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	123121320021030003020	
1735	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	132211230021020003030	
1736	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	132211230021020003020	
1737	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	132211230032010003020	
1738	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	132211230032010003020	
1739	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	123121230021030002020	
1740	7	13	70000	2	192(36,23,8,3,2,0,0,0,0,0)	70	123121230021030003030	
1741	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	132211320021020002020	
1742	7	13	70000	2	192(36,24,6,4,2,0,0,0,0,0)	68	132211320021020003030	
1743	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	132211320032010002020	
1744	7	13	70000	2	192(36,23,8,3,2,0,0,0,0,0)	70	132211320032010003030	
1745	7	13	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	123212320021020002030	
1746	7	13	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	123212320021020003020	
1747	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	123212230021020002020	
1748	7	13	70000	2	192(37,25,7,3,2,0,0,0,0,0)	70	123212230021020003030	
1749	7	13	70000	12	576(30,13,11,4,1,1,0,0,0,0)	66	123212121121000000001	
1750	7	13	70000	12	2304(32,17,9,4,1,1,0,0,0,0)	66	123212121121000000002	
1751	7	13	70000	12	2304(33,19,8,4,1,1,0,0,0,0)	66	123212121121000000003	
1752	7	13	70000	12	2304(32,16,11,3,1,1,0,0,0,0)	68	123212121132000000001	
1753	7	13	70000	12	7488(34,20,9,3,1,1,0,0,0,0)	68	123212121132000000002	
1754	7	13	70000	12	6336(35,22,8,3,1,1,0,0,0,0)	68	123212121132000000003	
1755	7	13	70000	12	576(30,13,11,4,1,1,0,0,0,0)	66	132122211121000000001	
1756	7	13	70000	12	2304(32,17,9,4,1,1,0,0,0,0)	66	132122211121000000002	
1757	7	13	70000	12	2304(33,19,8,4,1,1,0,0,0,0)	66	132122211121000000003	
1758	7	13	70000	12	2304(32,16,11,3,1,1,0,0,0,0)	68	132122211132000000001	
1759	7	13	70000	12	7488(34,20,9,3,1,1,0,0,0,0)	68	132122211132000000002	
1760	7	13	70000	12	5760(35,22,8,3,1,1,0,0,0,0)	68	132122211132000000003	
1761	7	13	70000	12	1152(33,17,11,4,0,1,0,0,0,0)	70	121123232132000000001	
1762	7	13	70000	12	4032(35,21,9,4,0,1,0,0,0,0)	70	121123232132000000002	
1763	7	13	70000	12	3456(36,23,8,4,0,1,0,0,0,0)	70	121123232132000000003	
1764	7	13	70000	12	1152(33,17,11,4,0,1,0,0,0,0)	70	112213322132000000001	
1765	7	13	70000	12	4032(35,21,9,4,0,1,0,0,0,0)	70	112213322132000000002	
1766	7	13	70000	12	3456(36,23,8,4,0,1,0,0,0,0)	70	112213322132000000003	
1767	7	13	70000	12	576(32,16,11,3,1,1,0,0,0,0)	68	112122231132000000001	
1768	7	13	70000	12	2016(34,20,9,3,1,1,0,0,0,0)	68	112122231132000000002	
1769	7	13	70000	12	1728(35,22,8,3,1,1,0,0,0,0)	68	112122231132000000003	
1770	7	13	70000	12	576(32,16,11,3,1,1,0,0,0,0)	68	121212321132000000001	
1771	7	13	70000	12	2016(34,20,9,3,1,1,0,0,0,0)	68	121212321132000000002	
1772	7	13	70000	12	1728(35,22,8,3,1,1,0,0,0,0)	68	121212321132000000003	
1773	7	13	70000	12	576(31,14,11,5,0,1,0,0,0,0)	68	132122231121000000001	
1774	7	13	70000	12	2304(33,18,9,5,0,1,0,0,0,0)	68	132122231121000000002	
1775	7	13	70000	12	2304(34,20,8,5,0,1,0,0,0,0)	68	132122231121000000003	
1776	7	13	70000	12	2304(33,17,11,4,0,1,0,0,0,0)	70	132122231132000000001	
1777	7	13	70000	12	7488(35,21,9,4,0,1,0,0,0,0)	70	132122231132000000002	
1778	7	13	70000	12	5760(36,23,8,4,0,1,0,0,0,0)	70	132122231132000000003	
1779	7	13	70000	12	576(31,14,11,5,0,1,0,0,0,0)	68	123212321121000000001	
1780	7	13	70000	12	2304(33,18,9,5,0,1,0,0,0,0)	68	123212321121000000002	
1781	7	13	70000	12	2304(34,20,8,5,0,1,0,0,0,0)	68	123212321121000000003	
1782	7	13	70000	12	2304(33,17,11,4,0,1,0,0,0,0)	70	123212321132000000001	
1783	7	13	70000	12	7488(35,21,9,4,0,1,0,0,0,0)	70	123212321132000000002	
1784	7	13	70000	12	5760(36,23,8,4,0,1,0,0,0,0)	70	123212321132000000003	
1785	7	13	70000	12	1152(32,16,11,3,1,1,0,0,0,0)	68	121123212132000000001	
1786	7	13	70000	12	4032(34,20,9,3,1,1,0,0,0,0)	68	121123212132000000002	
1787	7	13	70000	12	3456(35,22,8,3,1,1,0,0,0,0)	68	121123212132000000003	
1788	7	13	70000	12	1152(32,16,11,3,1,1,0,0,0,0)	68	112213122132000000001	
1789	7	13	70000	12	4032(34,20,9,3,1,1,0,0,0,0)	68	112213122132000000002	
1790	7	13	70000	12	3456(35,22,8,3,1,1,0,0,0,0)	68	112213122132000000003	
1791	7	13	70000	12	576(34,19,10,4,0,1,0,0,0,0)	70	132122122232000000001	
1792	7	13	70000	12	2016(36,23,8,4,0,1,0,0,0,0)	70	132122122232000000002	
1793	7	13	70000	12	1728(37,25,7,4,0,1,0,0,0,0)	70	132122122232000000003	
1794	7	13	70000	12	576(34,19,10,4,0,1,0,0,0,0)	70	123212212232000000001	
1795	7	13	70000	12	2016(36,23,8,4,0,1,0,0,0,0)	70	123212212232000000002	
1796	7	13	70000	12	1728(37,25,7,4,0,1,0,0,0,0)	70	123212212232000000003	
1797	7	13	70000	12	576(31,13,13,4,0,1,0,0,0,0)	70	213312221131000000001	
1798	7	13	70000	12	2304(33,17,11,4,0,1,0,0,0,0)	70	213312221131000000002	
1799	7	13	70000	12	2304(34,19,10,4,0,1,0,0,0,0)	70	213312221131000000003	
1800	7	13	70000	12	576(32,15,12,4,0,1,0,0,0,0)	70	213312221127000000001	
1801	7	13	70000	12	2880(34,19,10,4,0,1,0,0,0,0)	70	213312221127000000002	
1802	7	13	70000	12	2592(35,21,9,4,0,1,0,0,0,0)	70	213312221127000000003	
1803	7	13	70000	12	288(32,15,12,4,0,1,0,0,0,0)	70	222222131131000000001	
1804	7	13	70000	12	1152(34,19,10,4,0,1,0,0,0,0)	70	222222131131000000002	
1805	7	13	70000	12	1152(35,21,9,4,0,1,0,0,0,0)	70	222222131131000000003	
1806	7	13	70000	12	576(33,17,11,4,0,1,0,0,0,0)	70	222222311127000000001	
1807	7	13	70000	12	2880(35,21,9,4,0,1,0,0,0,0)	70	222222311127000000002	
1808	7	13	70000	12	2304(36,23,8,4,0,1,0,0,0,0)	70	222222311127000000003	
1809	7	13	70000	12	288(32,15,12,4,0,1,0,0,0,0)	70	222222311131000000001	
1810	7	13	70000	12	1152(34,19,10,4,0,1,0,0,0,0)	70	222222311131000000002	
1811	7	13	70000	12	1152(35,21,9,4,0,1,0,0,0,0)	70	222222311131000000003	
1812	7	13	70000	2	48(34,22,4,6,2,0,0,0,0,0)	66	112122102232000010003	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	C00E	TERM	GRAPH	MATRIX
1813	7	13	70000	2	96135,24,	3, 6, 2, 0, 0, 0, 0)	66	112122102232000020007	
1814	7	13	70000	2	48134,22,	4, 6, 2, 0, 0, 0, 0)	66	112122102232000030001	
1815	7	13	70000	2	96134,21,	6, 5, 2, 0, 0, 0, 0)	66	112122203132000010003	
1816	7	13	70000	2	192135,23,	5, 5, 2, 0, 0, 0, 0)	66	112122203132000020002	
1817	7	13	70000	2	96134,21,	6, 5, 2, 0, 0, 0, 0)	66	112122203132000030001	
1818	7	13	70000	2	48135,22,	7, 4, 2, 0, 0, 0, 0)	68	112122302232000010003	
1819	7	13	70000	2	96136,24,	6, 4, 2, 0, 0, 0, 0)	68	112122302232000020002	
1820	7	13	70000	2	48135,22,	7, 4, 2, 0, 0, 0, 0)	68	112122302232000030001	
1821	7	13	70000	2	96132,18,	6, 6, 2, 0, 0, 0, 0)	66	123121103221000010002	
1822	7	13	70000	2	192134,21,	6, 5, 2, 0, 0, 0, 0)	66	123121103221000020003	
1823	7	13	70000	2	96132,18,	6, 6, 2, 0, 0, 0, 0)	66	123121103221000020001	
1824	7	13	70000	2	192134,21,	6, 5, 2, 0, 0, 0, 0)	66	123121103221000030002	
1825	7	13	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0)	68	123121103221000030003	
1826	7	13	70000	2	384135,22,	7, 4, 2, 0, 0, 0, 0)	68	123121103221000030002	
1827	7	13	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0)	68	123121103221000030001	
1828	7	13	70000	2	96132,19,	4, 7, 2, 0, 0, 0, 0)	66	123121202121000010002	
1829	7	13	70000	2	192134,22,	4, 6, 2, 0, 0, 0, 0)	66	123121202121000020003	
1830	7	13	70000	2	96132,19,	4, 7, 2, 0, 0, 0, 0)	66	123121202121000020001	
1831	7	13	70000	2	192134,22,	4, 6, 2, 0, 0, 0, 0)	66	123121202121000030002	
1832	7	13	70000	2	192134,21,	6, 5, 2, 0, 0, 0, 0)	66	123121202121000030003	
1833	7	13	70000	2	384135,23,	5, 5, 2, 0, 0, 0, 0)	66	123121202121000030002	
1834	7	13	70000	2	192134,21,	6, 5, 2, 0, 0, 0, 0)	66	123121202121000030001	
1835	7	13	70000	2	96133,19,	7, 5, 2, 0, 0, 0, 0)	66	112231203221000010002	
1836	7	13	70000	2	192135,22,	7, 4, 2, 0, 0, 0, 0)	68	112231203221000020003	
1837	7	13	70000	2	96133,19,	7, 5, 2, 0, 0, 0, 0)	66	112231203221000020001	
1838	7	13	70000	2	192135,22,	7, 4, 2, 0, 0, 0, 0)	68	112231203221000030002	
1839	7	13	70000	2	192135,21,	9, 3, 2, 0, 0, 0, 0)	70	112231203221000030003	
1840	7	13	70000	2	384136,23,	8, 3, 2, 0, 0, 0, 0)	70	112231203221000030002	
1841	7	13	70000	2	192135,21,	9, 3, 2, 0, 0, 0, 0)	70	112231203221000030001	
1842	7	13	70000	2	96132,18,	6, 6, 2, 0, 0, 0, 0)	66	112231302121000010002	
1843	7	13	70000	2	192134,21,	6, 5, 2, 0, 0, 0, 0)	66	112231302121000020003	
1844	7	13	70000	2	96132,18,	6, 6, 2, 0, 0, 0, 0)	66	112231302121000020001	
1845	7	13	70000	2	192134,21,	6, 5, 2, 0, 0, 0, 0)	66	112231302121000030002	
1846	7	13	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0)	68	112231302121000030003	
1847	7	13	70000	2	384135,22,	7, 4, 2, 0, 0, 0, 0)	68	112231302121000030002	
1848	7	13	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0)	68	112231302121000030001	
1849	7	13	70000	2	96134,19,10,	3, 2, 0, 0, 0, 0)	70	222131103222000010003	
1850	7	13	70000	2	192135,21,	9, 3, 2, 0, 0, 0, 0)	70	222131103222000020002	
1851	7	13	70000	2	96134,19,10,	3, 2, 0, 0, 0, 0)	70	222131103222000030001	
1852	7	13	70000	2	192135,21,	9, 3, 2, 0, 0, 0, 0)	70	2221311032231000020003	
1853	7	13	70000	2	96133,18,	9, 4, 2, 0, 0, 0, 0)	68	2221311032231000010002	
1854	7	13	70000	2	192133,18,	9, 4, 2, 0, 0, 0, 0)	68	2221311032231000020001	
1855	7	13	70000	2	288135,21,	9, 3, 2, 0, 0, 0, 0)	70	2221311032231000030002	
1856	7	13	70000	2	288135,22,	7, 4, 2, 0, 0, 0, 0)	68	222131202122000020002	
1857	7	13	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0)	68	222131202122000030001	
1858	7	13	70000	2	96134,20,	8, 4, 2, 0, 0, 0, 0)	68	222131202122000010003	
1859	7	13	70000	2	192135,22,	7, 4, 2, 0, 0, 0, 0)	68	222131202121000020003	
1860	7	13	70000	2	96133,19,	7, 5, 2, 0, 0, 0, 0)	66	222131202121000010002	
1861	7	13	70000	2	192133,19,	7, 5, 2, 0, 0, 0, 0)	66	222131202121000020001	
1862	7	13	70000	2	288135,22,	7, 4, 2, 0, 0, 0, 0)	68	222131202121000030002	
1863	7	13	70000	2	96134,19,10,	3, 2, 0, 0, 0, 0)	70	213221203221000010002	
1864	7	13	70000	2	192134,19,10,	3, 2, 0, 0, 0, 0)	70	213221203221000020001	
1865	7	13	70000	2	288135,21,	9, 3, 2, 0, 0, 0, 0)	70	213221302122000020002	
1866	7	13	70000	2	192134,19,10,	3, 2, 0, 0, 0, 0)	70	213221302122000030001	
1867	7	13	70000	2	96134,19,10,	3, 2, 0, 0, 0, 0)	70	213221302122000010003	
1868	7	13	70000	2	192135,21,	9, 3, 2, 0, 0, 0, 0)	70	213221302121000020003	
1869	7	13	70000	2	96133,19,	9, 4, 2, 0, 0, 0, 0)	68	213221302121000010002	
1870	7	13	70000	2	192133,18,	9, 4, 2, 0, 0, 0, 0)	68	213221302121000020001	
1871	7	13	70000	2	288135,21,	9, 3, 2, 0, 0, 0, 0)	70	213221302121000030002	
1872	7	13	70000	12	576134,19,11,	2, 1, 1, 0, 0, 0)	70	213112221113000020003	
1873	7	13	70000	12	576134,19,11,	2, 1, 1, 0, 0, 0)	70	213112221113000030002	
1874	7	13	70000	12	288135,21,10,	2, 1, 1, 0, 0, 0)	70	312122211130000030003	
1875	7	13	70000	4	384134,19,	9, 5, 1, 0, 0, 0, 0)	70	321121300020001032032	
1876	7	13	70000	4	192134,19,	9, 5, 1, 0, 0, 0, 0)	70	23111220030001032032	
1877	7	13	70000	8	1536134,21,	6, 5, 2, 0, 0, 0, 0)	66	123121320021001003200	
1878	7	13	70000	8	1536134,21,	6, 5, 2, 0, 0, 0, 0)	66	112231320021001003200	
1879	7	13	70000	8	768132,18,	6, 6, 2, 0, 0, 0, 0)	66	123121320021001002100	
1880	7	13	70000	8	768132,18,	6, 6, 2, 0, 0, 0, 0)	66	112231320021001002100	
1881	7	13	70000	8	768132,17,	9, 3, 3, 0, 0, 0, 0)	66	132211120021001003200	
1882	7	13	70000	8	768132,17,	9, 3, 3, 0, 0, 0, 0)	66	121321120021001003200	
1883	7	13	70000	8	384130,14,	9, 4, 3, 0, 0, 0, 0)	64	132211120021001002100	
1884	7	13	70000	8	384130,14,	9, 4, 3, 0, 0, 0, 0)	64	121321120021001002100	
1885	7	13	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	123121230021002003200	
1886	7	13	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	112231230021002003200	
1887	7	13	70000	8	768133,19,	7, 5, 2, 0, 0, 0, 0)	66	123121230021002002100	
1888	7	13	70000	8	768133,19,	7, 5, 2, 0, 0, 0, 0)	66	112231230021002002100	
1889	7	13	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	132211230021002003200	
1890	7	13	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	121321230021002003200	
1891	7	13	70000	8	768133,19,	7, 5, 2, 0, 0, 0, 0)	66	132211230021002002100	
1892	7	13	70000	8	768133,19,	7, 5, 2, 0, 0, 0, 0)	66	121321230021002002100	
1893	7	13	70000	8	1536135,21,	9, 3, 2, 0, 0, 0, 0)	70	132211230021001003200	
1894	7	13	70000	8	1536135,21,	9, 3, 2, 0, 0, 0, 0)	70	121321230021001003200	
1895	7	13	70000	8	768133,18,	9, 4, 2, 0, 0, 0, 0)	68	132211230021001002100	
1896	7	13	70000	8	768133,18,	9, 4, 2, 0, 0, 0, 0)	68	121321230021001002100	
1897	7	13	70000	8	1536134,21,	6, 5, 2, 0, 0, 0, 0)	66	132211320021001003200	
1898	7	13	70000	8	1536134,21,	6, 5, 2, 0, 0, 0, 0)	66	121321320021001003200	
1899	7	13	70000	8	768132,18,	6, 6, 2, 0, 0, 0, 0)	66	132211320021001002100	
1900	7	13	70000	8	768132,18,	6, 6, 2, 0, 0, 0, 0)	66	121321320021001002100	
1901	7	13	70000	8	384130,14,	9, 4, 3, 0, 0, 0, 0)	64	121121320021001002100	
1902	7	13	70000	8	768132,17,	9, 3, 3, 0, 0, 0, 0)	66	121121320021001003200	
1903	7	13	70000	8	384130,14,	9, 4, 3, 0, 0, 0, 0)	64	112211320021001002100	
1904	7	13	70000	8	768132,17,	9, 3, 3, 0, 0, 0, 0)	66	112211320021001003200	
1905	7	13	70000	8	192128,10,12,	2, 4, 0, 0, 0, 0)	64	112211120021001002100	
1906	7	13	70000	8	384130,13,12,	1, 4, 0, 0, 0, 0)	66	112211120021001003200	
1907	7	13	70000	8	384131,15,10,	3, 3, 0, 0, 0, 0)	66	121121230021002002100	
1908	7	13	70000	8	768133,18,10,	2, 3, 0, 0, 0, 0)	68	121121230021002003200	
1909	7	13	70000	8	384131,15,10,	3, 3, 0, 0, 0, 0)	66	112211230021002002100	
1910	7	13	70000	8	768133,18,10,	2, 3, 0, 0, 0, 0)	68	112211230021002003200	
1911	7	13	70000	8	384131,14,12,	2, 3, 0, 0, 0, 0)	68	112211230021002002100	
1912	7	13	70000	8	768133,17,12,	1, 3, 0, 0, 0, 0)	70	112211230021001003200	
1913	7	13	70000	8	768133,18,	9, 4, 2, 0, 0, 0, 0)	68	132122320021001003100	
1914	7	13	70000	8	1536134,20,	8, 4, 2, 0, 0, 0, 0)	68	132122320021001002200	
1915	7	13	70000	8	768133,18,	9, 4, 2, 0, 0, 0, 0)	68	112222320021001003100	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COEF	TERM	GRAPH MATRIX
1916	7	13	70000	8	384(31,14,12,2,3,0,0,0,0,01	68	1232121200021001003100	
1917	7	13	70000	8	768(32,16,11,2,3,0,0,0,0,01	68	123212120021001002200	
1918	7	13	70000	8	384(31,14,12,2,3,0,0,0,0,01	68	112322120021001003100	
1919	7	13	70000	8	768(34,19,10,3,2,0,0,0,0,01	70	132122230021002003100	
1920	7	13	70000	8	1536(35,21,0,3,2,0,0,0,0,01	70	132122230021002002200	
1921	7	13	70000	8	768(34,19,10,3,2,0,0,0,0,01	70	112322230021002003100	
1922	7	13	70000	8	768(34,19,10,3,2,0,0,0,0,01	70	123212230021002003100	
1923	7	13	70000	8	1536(35,21,9,3,2,0,0,0,0,01	70	123212230021002002200	
1924	7	13	70000	8	768(34,10,10,3,2,0,0,0,0,01	70	121232230021002003100	
1925	7	13	70000	8	768(33,18,9,4,2,0,0,0,0,01	68	123212320021001003100	
1926	7	13	70000	8	1536(34,20,8,4,2,0,0,0,0,01	68	123212320021001002200	
1927	7	13	70000	8	768(33,18,9,4,2,0,0,0,0,01	68	12123230021001003100	
1928	7	13	70000	8	384(33,19,7,5,2,0,0,0,0,01	66	132231210021002002100	
1929	7	13	70000	8	576(35,22,7,4,2,0,0,0,0,01	68	132231210021002003200	
1930	7	13	70000	8	384(33,19,7,5,2,0,0,0,0,01	66	12321210021002002100	
1931	7	13	70000	8	576(35,22,7,4,2,0,0,0,0,01	68	1232121002100200300	
1932	7	13	70000	8	1536(33,18,9,4,2,0,0,0,0,01	68	132231320021001002100	
1933	7	13	70000	8	1920(35,21,9,3,2,0,0,0,0,01	70	132231320021001002200	
1934	7	13	70000	8	1536(33,18,9,4,2,0,0,0,0,01	68	123212320021001003100	
1935	7	13	70000	8	1920(35,21,9,3,2,0,0,0,0,01	70	123212320021001003200	
1936	7	13	70000	8	768(31,14,12,2,3,0,0,0,0,01	68	123321120021001002100	
1937	7	13	70000	8	1152(33,17,12,1,3,0,0,0,0,01	70	123321120021001003200	
1938	7	13	70000	8	768(33,18,9,4,2,0,0,0,0,01	68	123321120021003002100	
1939	7	13	70000	8	1152(35,21,9,3,2,0,0,0,0,01	70	123321120021003003200	
1940	7	13	70000	8	1536(34,19,10,3,2,0,0,0,0,01	70	132231230021002002100	
1941	7	13	70000	8	1536(34,19,10,3,2,0,0,0,0,01	70	123321230021002002100	
1942	7	13	70000	8	768(32,16,10,4,2,0,0,0,0,01	68	222131220031001002100	
1943	7	13	70000	8	1536(34,19,10,3,2,0,0,0,0,01	70	222131220031001003200	
1944	7	13	70000	8	768(32,16,10,4,2,0,0,0,0,01	68	212221220031001002100	
1945	7	13	70000	8	1536(34,19,10,3,2,0,0,0,0,01	70	213221220031001003200	
1946	7	13	70000	8	384(32,15,12,3,2,0,0,0,0,01	70	222311130031002002100	
1947	7	13	70000	8	384(32,15,12,3,2,0,0,0,0,01	70	231221130031002002100	
1948	7	13	70000	8	384(34,19,10,3,2,0,0,0,0,01	70	222311220022002002100	
1949	7	13	70000	8	384(34,19,10,3,2,0,0,0,0,01	70	231221220022002002100	
1950	7	13	70000	8	768(32,16,10,4,2,0,0,0,0,01	68	222311220031001002100	
1951	7	13	70000	8	1536(34,19,10,3,2,0,0,0,0,01	70	222311220031001003200	
1952	7	13	70000	8	768(32,16,10,4,2,0,0,0,0,01	68	231221220031001002100	
1953	7	13	70000	8	1536(34,19,10,3,2,0,0,0,0,01	70	231221220031001003200	
1954	7	13	70000	4	384(34,20,7,6,1,0,0,0,0,01	68	222220310130100031002	
1955	7	13	70000	4	192(35,21,8,5,1,0,0,0,0,01	70	222220310120200031003	
1956	7	13	70000	4	96(34,19,9,5,1,0,0,0,0,01	70	222130310230100031002	
1957	7	13	70000	4	96(36,23,7,5,1,0,0,0,0,01	70	222220202030100031002	
1958	7	13	70000	4	96(34,22,4,6,2,0,0,0,0,01	66	112122230010223000010	
1959	7	13	70000	4	336(36,26,2,6,2,0,0,0,0,01	66	112122230010223000020	
1960	7	13	70000	4	288(37,28,1,6,2,0,0,0,0,01	66	112122230010223000030	
1961	7	13	70000	4	96(32,18,6,6,2,0,0,0,0,01	66	123121120010322000010	
1962	7	13	70000	4	384(34,22,4,6,2,0,0,0,0,01	66	123121120010322000020	
1963	7	13	70000	4	384(35,24,3,6,2,0,0,0,0,01	66	123121120010322000030	
1964	7	13	70000	4	192(33,18,9,4,2,0,0,0,0,01	68	222131130010322000010	
1965	7	13	70000	4	768(35,22,7,4,2,0,0,0,0,01	68	222131130010322000020	
1966	7	13	70000	4	768(36,24,6,4,2,0,0,0,0,01	68	222131130010322000030	
1967	7	13	70000	4	384(34,20,8,4,2,0,0,0,0,01	68	123121230010323000010	
1968	7	13	70000	4	1248(36,24,6,4,2,0,0,0,0,01	68	123121230010323000020	
1969	7	13	70000	4	960(37,26,5,4,2,0,0,0,0,01	68	123121230010323000030	
1970	7	13	70000	4	192(34,19,10,3,2,0,0,0,0,01	70	112231230020322000010	
1971	7	13	70000	4	960(36,23,8,3,2,0,0,0,0,01	70	112231230020322000020	
1972	7	13	70000	4	768(37,25,7,3,2,0,0,0,0,01	70	112231230020322000030	
1973	7	13	70000	2	48(36,24,4,8,0,0,0,0,0,01	70	222103220310020013030	
1974	7	13	70000	2	48(36,24,4,8,0,0,0,0,0,01	70	222103220310020020202	
1975	7	13	70000	2	96(38,27,4,7,0,0,0,0,0,01	70	222103220320030013030	
1976	7	13	70000	2	96(38,27,4,7,0,0,0,0,0,01	70	222103220320030020202	
1977	7	13	70000	2	48(36,24,4,8,0,0,0,0,0,01	70	222103220320010013030	
1978	7	13	70000	2	48(36,24,4,8,0,0,0,0,0,01	70	222103220320010020202	
1979	7	13	70000	2	96(38,27,4,7,0,0,0,0,0,01	70	222103220320020013030	
1980	7	13	70000	2	96(38,27,4,7,0,0,0,0,0,01	70	222103220320020020202	
1981	7	13	70000	1	48(36,23,7,5,1,0,0,0,0,01	70	1321222300100230002030	
1982	7	13	70000	1	48(36,23,7,5,1,0,0,0,0,01	70	1321222300100230003020	
1983	7	13	70000	2	96(33,18,9,4,2,0,0,0,0,01	68	112211230023002000010	
1984	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,01	68	112211230023002000020	
1985	7	13	70000	2	192(36,23,7,5,1,0,0,0,0,01	70	112322230023002000030	
1986	7	13	70000	2	144(37,25,6,5,1,0,0,0,0,01	70	112322230023002000020	
1987	7	13	70000	2	96(35,23,4,7,1,0,0,0,0,01	68	112122230023002000030	
1988	7	13	70000	2	96(36,25,3,7,1,0,0,0,0,01	68	112122230023002000020	
1989	7	13	70000	2	96(35,22,6,6,1,0,0,0,0,01	68	112231230023002000030	
1990	7	13	70000	2	192(36,24,5,6,1,0,0,0,0,01	68	112231230023002000020	
1991	7	13	70000	2	96(35,22,6,6,1,0,0,0,0,01	68	112213203023002000030	
1992	7	13	70000	2	96(36,23,7,5,1,0,0,0,0,01	70	213221230023002000020	
1993	7	13	70000	2	96(35,21,8,5,1,0,0,0,0,01	70	123212202023002000030	
1994	7	13	70000	2	48(35,21,8,5,1,0,0,0,0,01	70	222311202022002000020	
1995	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,01	70	1322112300200020003020	
1996	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,01	70	132211230030001002020	
1997	7	13	70000	1	48(34,19,9,5,1,0,0,0,0,01	70	123121230030001002020	
1998	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,01	70	123121230030001003020	
1999	7	13	70000	1	48(34,21,6,5,2,0,0,0,0,01	66	112211102023003300020	
2000	7	13	70000	1	96(37,26,4,6,1,0,0,0,0,01	68	112322102023003300020	
2001	7	13	70000	1	48(36,25,3,7,1,0,0,0,0,01	68	112213102023003300020	
2002	7	13	70000	1	48(35,23,4,7,1,0,0,0,0,01	68	123212103020023000202	
2003	7	13	70000	1	48(35,22,6,6,1,0,0,0,0,01	68	123212103020023000300	
2004	7	13	70000	1	192(37,25,6,5,1,0,0,0,0,01	70	123212103020023000020	
2005	7	13	70000	1	48(35,22,6,6,1,0,0,0,0,01	68	123321133012002300020	
2006	7	13	70000	1	48(35,21,8,5,1,0,0,0,0,01	70	123321133023002300020	
2007	7	13	70000	1	48(36,23,7,5,1,0,0,0,0,01	70	213312103020023000030	
2008	7	13	70000	1	48(36,23,7,5,1,0,0,0,0,01	70	213312103020023000020	
2009	7	13	70000	1	48(36,24,5,6,1,0,0,0,0,01	68	213221102023003300020	
2010	7	13	70000	1	48(35,24,5,6,1,0,0,0,0,01	68	213221102023003300030	
2011	7	13	70000	1	48(35,22,6,6,1,0,0,0,0,01	68	222311103013002300020	
2012	7	13	70000	1	48			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2018	7	13	70000	1	48(36,23,7,5,1,0,0,0,0,0)	70	2222221030220032000010	
2019	7	13	70000	2	48(37,27,2,7,1,0,0,0,0,0)	68	1121222030230023002000	
2020	7	13	70000	2	48(35,21,8,5,1,0,0,0,0,0)	70	2222221030130023001000	
2021	7	13	70000	4	192(37,25,7,3,2,0,0,0,0,0)	70	1211232320200323000000	
2022	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1121222300203103000010	
2023	7	13	70000	2	48(35,22,7,4,2,0,0,0,0,0)	68	1121222300302203000010	
2024	7	13	70000	2	96(32,19,4,7,2,0,0,0,0,0)	66	1231211200202102000010	
2025	7	13	70000	2	192(34,22,4,6,2,0,0,0,0,0)	66	1231211200202103000020	
2026	7	13	70000	2	96(32,18,6,6,2,0,0,0,0,0)	66	1122311200302102000010	
2027	7	13	70000	2	192(34,21,6,5,2,0,0,0,0,0)	66	1122311200302103000020	
2028	7	13	70000	2	192(35,23,5,5,2,0,0,0,0,0)	66	1231212300202102000020	
2029	7	13	70000	2	192(34,21,6,5,2,0,0,0,0,0)	66	1231212300202103000010	
2030	7	13	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	1122312300302102000020	
2031	7	13	70000	2	192(34,20,8,4,2,0,0,0,0,0)	68	1122312300302103000010	
2032	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	1122312300203203000010	
2033	7	13	70000	2	192(33,19,7,5,2,0,0,0,0,0)	66	2221311300202102000010	
2034	7	13	70000	2	288(35,22,7,4,2,0,0,0,0,0)	68	2221311300202103000020	
2035	7	13	70000	2	192(33,18,9,4,2,0,0,0,0,0)	68	2132211300302102000010	
2036	7	13	70000	2	288(35,21,9,3,2,0,0,0,0,0)	70	2132211300302103000020	
2037	7	13	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	2221312200202102000020	
2038	7	13	70000	2	192(34,20,8,4,2,0,0,0,0,0)	68	2221312200202103000010	
2039	7	13	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	2132212200302102000020	
2040	7	13	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	2132212200302103000010	
2041	7	13	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	2221312200103203000010	
2042	7	13	70000	48	2304(32,16,11,3,1,1,0,0,0,0)	68	3121222111300002000001	
2043	7	13	70000	48	4608(33,17,11,4,0,1,0,0,0,0)	70	1321222311300002000001	
2044	7	13	70000	48	4608(30,13,11,4,1,1,0,0,0,0)	66	3212121211200001000001	
2045	7	13	70000	48	4608(32,16,11,3,1,1,0,0,0,0)	68	3212121211300001000002	
2046	7	13	70000	48	4608(33,18,10,3,1,1,0,0,0,0)	68	3212121211200002000002	
2047	7	13	70000	48	9216(32,16,11,3,1,1,0,0,0,0)	68	3212121211300002000001	
2048	7	13	70000	48	2304(34,19,10,4,0,1,0,0,0,0)	70	2133122211200002000002	
2049	7	13	70000	48	9216(33,17,11,4,0,1,0,0,0,0)	70	2133122211300002000001	
2050	7	13	70000	48	4608(32,16,11,3,1,1,0,0,0,0)	68	1232121211300002000001	
2051	7	13	70000	48	2304(33,17,11,4,0,1,0,0,0,0)	70	2112231321300002000001	
2052	7	13	70000	48	1152(35,21,9,4,0,1,0,0,0,0)	70	2222221311200002000002	
2053	7	13	70000	48	4608(34,19,10,4,0,1,0,0,0,0)	70	2222221311300002000001	
2054	7	13	70000	48	1152(35,21,9,4,0,1,0,0,0,0)	70	2222223111200002000002	
2055	7	13	70000	48	2304(34,19,10,4,0,1,0,0,0,0)	70	2222223111300002000001	
2056	7	13	70000	4	96(32,18,6,6,2,0,0,0,0,0)	66	2111321320200102000010	
2057	7	13	70000	4	384(34,21,6,5,2,0,0,0,0,0)	66	2111321320300202000010	
2058	7	13	70000	4	384(36,24,6,4,2,0,0,0,0,0)	68	2111321320300203000020	
2059	7	13	70000	4	192(34,20,8,4,2,0,0,0,0,0)	68	2112231320200202000010	
2060	7	13	70000	4	192(33,18,9,4,2,0,0,0,0,0)	68	2112231320300102000010	
2061	7	13	70000	4	192(35,21,9,3,2,0,0,0,0,0)	70	1211232320200303000010	
2062	7	13	70000	4	384(36,23,8,3,2,0,0,0,0,0)	70	1211232320300202000020	
2063	7	13	70000	4	384(35,21,9,3,2,0,0,0,0,0)	70	1211232320300203000010	
2064	7	13	70000	4	48(36,26,2,6,2,0,0,0,0,0)	66	1121221220300203000020	
2065	7	13	70000	8	768(32,18,6,6,2,0,0,0,0,0)	66	1122303020120102010101	
2066	7	13	70000	8	384(30,14,9,4,3,0,0,0,0,0)	64	1123201020210102010101	
2067	7	13	70000	8	768(33,19,7,5,2,0,0,0,0,0)	66	1123203020120202010101	
2068	7	13	70000	8	192(34,20,8,4,2,0,0,0,0,0)	68	1122302030210202010202	
2069	7	13	70000	8	768(33,19,7,5,2,0,0,0,0,0)	66	1122303020210202010101	
2070	7	13	70000	8	384(34,19,10,3,2,0,0,0,0,0)	70	1122302030210202020201	
2071	7	13	70000	8	768(33,18,9,4,2,0,0,0,0,0)	68	1122303020302010201010	
2072	7	13	70000	8	384(32,18,6,6,2,0,0,0,0,0)	66	1123203020210102010101	
2073	7	13	70000	8	768(33,18,9,4,2,0,0,0,0,0)	68	1232302020120102010101	
2074	7	13	70000	8	384(31,14,12,2,3,0,0,0,0,0)	68	2132201020310102010101	
2075	7	13	70000	8	384(33,18,9,4,2,0,0,0,0,0)	68	1231202020210303010101	
2076	7	13	70000	8	768(34,19,10,3,2,0,0,0,0,0)	70	1233202020120203010101	
2077	7	13	70000	8	1152(34,19,10,3,2,0,0,0,0,0)	70	1232302020210203010101	
2078	7	13	70000	8	384(33,19,7,5,2,0,0,0,0,0)	66	1232101030210202020101	
2079	7	13	70000	8	192(33,18,9,4,2,0,0,0,0,0)	68	2131302010310202010202	
2080	7	13	70000	8	1536(33,18,9,4,2,0,0,0,0,0)	68	2131303020220102010101	
2081	7	13	70000	8	768(33,17,11,3,2,0,0,0,0,0)	70	2131303020310202010101	
2082	7	13	70000	8	192(35,22,7,4,2,0,0,0,0,0)	68	2132202010220202010202	
2083	7	13	70000	8	384(33,19,7,5,2,0,0,0,0,0)	66	1232102020210203010101	
2084	7	13	70000	8	768(35,21,9,3,2,0,0,0,0,0)	70	2132203020220202010101	
2085	7	13	70000	8	1536(33,18,9,4,2,0,0,0,0,0)	68	2132203030310102010101	
2086	7	13	70000	8	768(33,17,11,3,2,0,0,0,0,0)	70	2221302020220103010101	
2087	7	13	70000	8	576(33,17,11,3,2,0,0,0,0,0)	70	2222202020310103010101	
2088	7	13	70000	4	192(37,26,5,4,2,0,0,0,0,0)	68	1123221220230003020000	
2089	7	13	70000	4	96(37,26,5,4,2,0,0,0,0,0)	68	1123221220302003020000	
2090	7	13	70000	4	192(35,22,7,4,2,0,0,0,0,0)	68	1122133220230002010000	
2091	7	13	70000	4	192(37,25,7,3,2,0,0,0,0,0)	70	1123223132300020300000	
2092	7	13	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	1122133220230003020000	
2093	7	13	70000	4	192(35,22,7,4,2,0,0,0,0,0)	68	1122133220302021020000	
2094	7	13	70000	4	192(35,22,7,4,2,0,0,0,0,0)	68	1122133220320002010000	
2095	7	13	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	1123223102300030200000	
2096	7	13	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	1123223103200030200000	
2097	7	13	70000	4	96(34,20,8,4,2,0,0,0,0,0)	68	1123223220120002010000	
2098	7	13	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	1123223220320001020000	
2099	7	13	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	1123223220230002010000	
2100	7	13	70000	4	48(34,20,8,4,2,0,0,0,0,0)	68	1123223220210002010000	
2101	7	13	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	1123223220320002010000	
2102	7	13	70000	4	96(36,24,6,4,2,0,0,0,0,0)	68	1122132310230002030000	
2103	7	13	70000	4	192(36,24,6,4,2,0,0,0,0,0)	68	1122132310230003020000	
2104	7	13	70000	4	96(36,24,6,4,2,0,0,0,0,0)	68	1122132310320003020000	
2105	7	13	70000	6	144(40,31,2,7,0,0,0,0,0,0)	70	1232301033230033200000	
2106	7	13	70000	4	192(36,24,6,4,2,0,0,0,0,0)	68	1231211032320003200000	
2107	7	13	70000	4	192(36,25,4,5,2,0,0,0,0,0)	66	1231212021230002300000	
2108	7	13	70000	4	384(36,25,4,5,2,0,0,0,0,0)	66	1231212021230003300000	
2109	7	13	70000	4	192(36,25,4,5,2,0,0,0,0,0)	66	1231212021230003320000	
2110	7	13	70000	4	192(37,25,7,3,2,0,0,0,0,0)	70	1122312032230003200000	
2111	7	13	70000	4	192(37,25,7,3,2,0,0,0,0,0)	70	1122312032230003200000	
2112	7	13						

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2121	7	13	70000	6	288135,21,	9, 4, 0, 1, 0, 0, 0, 0	70	112213322132000200000
2122	7	13	70000	6	576136,23,	8, 4, 0, 1, 0, 0, 0, 01	70	112213322132000300000
2123	7	13	70000	6	288134,20,	9, 3, 1, 1, 0, 0, 0, 01	68	121212321123000200000
2124	7	13	70000	6	432135,22,	8, 3, 1, 1, 0, 0, 0, 0	68	121212321123000300000
2125	7	13	70000	6	144132,16,11,	3, 1, 1, 0, 0, 0, 0, 01	68	121212321132000100000
2126	7	13	70000	6	576134,20,	9, 3, 1, 1, 0, 0, 0, 01	68	121212321132000200000
2127	7	13	70000	6	576135,22,	8, 3, 1, 1, 0, 0, 0, 01	68	121212321132000300000
2128	7	13	70000	6	288134,20,	8, 5, 0, 1, 0, 0, 0, 0	68	123212321112000300000
2129	7	13	70000	6	288135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	123212321123000200000
2130	7	13	70000	6	1152136,23,	8, 4, 0, 1, 0, 0, 0, 01	70	123212321123000300000
2131	7	13	70000	6	576133,18,	9, 5, 0, 1, 0, 0, 0, 01	68	123212321123000200000
2132	7	13	70000	6	864134,20,	8, 5, 0, 1, 0, 0, 0, 0	68	123212321121000300000
2133	7	13	70000	6	1152135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	123212321132000200000
2134	7	13	70000	6	1728136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	123212321132000300000
2135	7	13	70000	6	288135,22,	8, 3, 1, 1, 0, 0, 0, 01	68	112213122132000300000
2136	7	13	70000	6	288135,22,	8, 3, 1, 1, 0, 0, 0, 01	68	121123212123000300000
2137	7	13	70000	6	288134,20,	9, 3, 1, 1, 0, 0, 0, 0	68	121123212132000200000
2138	7	13	70000	6	576135,22,	8, 3, 1, 1, 0, 0, 0, 01	68	121123212132000300000
2139	7	13	70000	6	576135,22,	8, 3, 1, 1, 0, 0, 0, 01	68	123212121123000300000
2140	7	13	70000	6	288132,17,	9, 4, 1, 1, 0, 0, 0, 0	66	123212121121000200000
2141	7	13	70000	6	576133,19,	8, 4, 1, 1, 0, 0, 0, 01	66	123212121121000300000
2142	7	13	70000	6	576134,20,	9, 3, 1, 1, 0, 0, 0, 01	68	123212121132000200000
2143	7	13	70000	6	1152135,22,	8, 3, 1, 1, 0, 0, 0, 0	68	123212121132000300000
2144	7	13	70000	6	288136,23,	8, 4, 0, 1, 0, 0, 0, 01	70	121123232123000300000
2145	7	13	70000	6	288135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	121123232132000200000
2146	7	13	70000	6	576136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	121123232132000300000
2147	7	13	70000	6	288137,25,	7, 4, 0, 1, 0, 0, 0, 01	70	123212212223000300000
2148	7	13	70000	6	288136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	123212212232000300000
2149	7	13	70000	6	432137,25,	7, 4, 0, 1, 0, 0, 0, 0	70	123212212232000300000
2150	7	13	70000	6	144137,25,	7, 4, 0, 1, 0, 0, 0, 01	70	132122122232000300000
2151	7	13	70000	6	576136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	132122231123000300000
2152	7	13	70000	6	288133,18,	9, 5, 0, 1, 0, 0, 0, 01	68	132122231121000200000
2153	7	13	70000	6	576134,20,	8, 5, 0, 1, 0, 0, 0, 0	68	132122231121000300000
2154	7	13	70000	6	576135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	132122231132000200000
2155	7	13	70000	6	1152136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	132122231132000300000
2156	7	13	70000	6	144135,22,	8, 3, 1, 1, 0, 0, 0, 0	68	112122231132000300000
2157	7	13	70000	6	576134,19,10,	4, 0, 1, 0, 0, 0, 0	70	213312221122000200000
2158	7	13	70000	6	1152135,21,	9, 4, 0, 1, 0, 0, 0, 0	70	213312221122000300000
2159	7	13	70000	6	576133,17,11,	4, 0, 1, 0, 0, 0, 0	70	213312221131000200000
2160	7	13	70000	6	864134,19,10,	4, 0, 1, 0, 0, 0, 0	70	213312221131000300000
2161	7	13	70000	6	144135,21,	9, 4, 0, 1, 0, 0, 0, 0	70	222222311113000300000
2162	7	13	70000	6	576135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	222222311122000200000
2163	7	13	70000	6	864136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	222222311122000300000
2164	7	13	70000	6	432134,19,10,	4, 0, 1, 0, 0, 0, 01	70	222222311131000200000
2165	7	13	70000	6	576135,21,	9, 4, 0, 1, 0, 0, 0, 0	70	222222311131000300000
2166	7	13	70000	6	288135,21,	9, 4, 0, 1, 0, 0, 0, 0	70	222222131122000200000
2167	7	13	70000	6	576136,23,	8, 4, 0, 1, 0, 0, 0, 0	70	222222131122000300000
2168	7	13	70000	6	288134,19,10,	4, 0, 1, 0, 0, 0, 0	70	222222131131000200000
2169	7	13	70000	6	432135,21,	9, 4, 0, 1, 0, 0, 0, 01	70	222222131131000300000
2170	7	13	70000	1	48134,21,	6, 5, 2, 0, 0, 0, 0, 01	66	11221120302003002000
2171	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 0	68	11221120302003002000
2172	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 0	68	11221120302003002000
2173	7	13	70000	1	96137,26,	4, 6, 1, 0, 0, 0, 0, 0	68	11232223012003002000
2174	7	13	70000	1	96138,27,	5, 5, 1, 0, 0, 0, 0, 0	70	11232223012003002000
2175	7	13	70000	1	96138,27,	5, 5, 1, 0, 0, 0, 0, 0	70	11232223012003002000
2176	7	13	70000	1	48137,26,	4, 6, 1, 0, 0, 0, 0, 0	68	11221320302002003000
2177	7	13	70000	1	48137,26,	4, 6, 1, 0, 0, 0, 0, 0	68	11221320302002003000
2178	7	13	70000	1	48135,22,	6, 6, 1, 0, 0, 0, 0, 01	68	2133121020130023002000
2179	7	13	70000	1	48136,23,	7, 5, 1, 0, 0, 0, 0, 01	70	2133121020220032003000
2180	7	13	70000	1	48136,23,	7, 5, 1, 0, 0, 0, 0, 0	70	2133121020220032003000
2181	7	13	70000	1	48135,21,	8, 5, 1, 0, 0, 0, 0, 01	70	2133122030130030010000
2182	7	13	70000	1	48135,21,	8, 5, 1, 0, 0, 0, 0, 01	70	2133122030220021020000
2183	7	13	70000	1	48135,21,	8, 5, 1, 0, 0, 0, 0, 01	70	2133122030220022001000
2184	7	13	70000	1	96137,25,	6, 5, 1, 0, 0, 0, 0, 0	70	2132212030130030020000
2185	7	13	70000	1	48137,25,	6, 5, 1, 0, 0, 0, 0, 0	70	2132212030220022003000
2186	7	13	70000	1	48137,25,	6, 5, 1, 0, 0, 0, 0, 0	70	2132212030220022003000
2187	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 0	68	1211232320230020010000
2188	7	13	70000	1	96137,25,	7, 3, 2, 0, 0, 0, 0, 0	70	1211232320230023002000
2189	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 0	68	1211232320230022001000
2190	7	13	70000	1	48137,25,	7, 3, 2, 0, 0, 0, 0, 0	70	1211232320230022003000
2191	7	13	70000	1	96137,25,	7, 3, 2, 0, 0, 0, 0, 0	70	1211232320230023002000
2192	7	13	70000	1	48136,24,	6, 4, 2, 0, 0, 0, 0, 0	68	1211233210230002003000
2193	7	13	70000	1	48134,21,	6, 5, 2, 0, 0, 0, 0, 0	66	1211233210230002001000
2194	7	13	70000	1	96136,24,	6, 4, 2, 0, 0, 0, 0, 0	68	1211233210230003002000
2195	7	13	70000	1	48134,21,	6, 5, 2, 0, 0, 0, 0, 0	66	1211233210320001002000
2196	7	13	70000	1	96136,24,	6, 4, 2, 0, 0, 0, 0, 0	68	1211233210320002003000
2197	7	13	70000	1	48134,21,	6, 5, 2, 0, 0, 0, 0, 0	66	1211233210320002001000
2198	7	13	70000	1	96136,24,	6, 4, 2, 0, 0, 0, 0, 0	68	1211233210320003002000
2199	7	13	70000	1	48135,21,	9, 3, 2, 0, 0, 0, 0, 0	70	1212321230230003001000
2200	7	13	70000	1	48136,23,	8, 3, 2, 0, 0, 0, 0, 01	70	1212321230230002002000
2201	7	13	70000	1	48135,21,	9, 3, 2, 0, 0, 0, 0, 0	70	1212321230230003001000
2202	7	13	70000	1	48136,24,	6, 4, 2, 0, 0, 0, 0, 0	68	1212322120230002002000
2203	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 0	68	1212322120230003001000
2204	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 01	68	12123221203200021003000
2205	7	13	70000	1	96136,24,	6, 4, 2, 0, 0, 0, 0, 0	68	1212322120320002002000
2206	7	13	70000	1	48135,22,	7, 4, 2, 0, 0, 0, 0, 0	68	1212322120320003001000
2207	7	13	70000	1	48134,19,10,	3, 2, 0, 0, 0, 0, 0	70	1212322320120003001000
2208	7	13	70000	1	48135,21,	9, 3, 2, 0, 0, 0, 0, 0	70	1212322320210002002000
2209	7	13	70000	1	48134,19,10,	3, 2, 0, 0, 0, 0, 01	70	1212322320210003001000
2210	7	13	70000	1	48134,20,	8, 4, 2, 0, 0, 0, 0, 01	68	1212323210120002002000
2211	7	13	70000	1	48133,18,	9, 4, 2, 0, 0, 0, 0, 0	68	1212323210120003001000
2212	7	13	70000	1	144136,23,	8, 3, 2, 0, 0, 0, 0, 01	70	1212323210230002002000
2213	7	13	70000	1	96135,21,	9, 3, 2, 0, 0, 0, 0, 0	70	1212323210230003001000
2214	7	13	70000	1	48133,18,	9, 4, 2, 0, 0, 0, 0, 0	68	1212323210210001003000
2215	7	13	70000	1	96134,20,	8, 4, 2, 0, 0, 0, 0, 0	68	1212323210210002002000
2216	7	13	70000	1	48133,18,	9, 4, 2, 0, 0, 0, 0, 01	68	1212323210210003001000
2217	7	13	70000	1	96135,21,	9, 3, 2, 0, 0, 0, 0, 0	70	1212323210320002003000
2218	7	13	70000	1	192136,23,	8, 3, 2, 0, 0, 0, 0, 0	70	1212323210320002003000
2219	7	13	70000	1	96135,21,	9, 3, 2, 0, 0, 0, 0, 0	70	1212323210320003001000
2220	7	13	70000	1	48136,25,	4, 5, 2, 0, 0, 0, 0, 0	66	1121222310230003002000
2221	7	13	70000	1	48136,25,	4, 5, 2, 0, 0, 0, 0, 0	66	1121222310320003002000
2222	7	13	70000	1	48136,25,	4, 5, 2, 0, 0, 0, 0, 0	66	1121222310320003002000
2223	7	13	70000	1	48137,26,	5, 4, 2, 0, 0, 0, 0, 0	68	1121222320230003002000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2224	7	13	70000	1	48(37,26,5,4,2,0,0,0,0)	68	112122322032000200300	
2225	7	13	70000	1	48(37,26,5,4,2,0,0,0,0)	68	112122322032000200300	
2226	7	13	70000	2	96(34,21,7,3,3,0,0,0,0)	66	121123212023010200000	
2227	7	13	70000	2	192(35,23,6,3,3,0,0,0,0)	66	121123212023010200000	
2228	7	13	70000	2	96(35,22,8,2,3,0,0,0,0)	68	112213322021020200000	
2229	7	13	70000	2	192(36,24,7,2,3,0,0,0,0)	68	112213322021020200000	
2230	7	13	70000	2	96(36,23,9,1,3,0,0,0,0)	70	121123232023010300000	
2231	7	13	70000	2	96(36,23,9,1,3,0,0,0,0)	70	112213213023020300000	
2232	7	13	70000	2	96(35,23,6,3,3,0,0,0,0)	66	112213122032010300000	
2233	7	13	70000	2	96(34,20,9,2,3,0,0,0,0)	68	112213231032010200000	
2234	7	13	70000	2	192(35,22,8,2,3,0,0,0,0)	68	112213231032010200000	
2235	7	13	70000	2	96(34,20,9,2,3,0,0,0,0)	68	112213213032010200000	
2236	7	13	70000	2	192(35,22,8,2,3,0,0,0,0)	68	112213213032010200000	
2237	7	13	70000	2	96(35,21,10,1,3,0,0,0,0)	70	112213322032010200000	
2238	7	13	70000	2	192(36,23,9,1,3,0,0,0,0)	70	112213322032010200000	
2239	7	13	70000	2	96(36,24,7,2,3,0,0,0,0)	68	1212123023020300000	
2240	7	13	70000	2	96(34,21,7,3,3,0,0,0,0)	66	1212123023020300000	
2241	7	13	70000	2	192(35,23,6,3,3,0,0,0,0)	66	1212123023020300000	
2242	7	13	70000	2	192(35,23,6,3,3,0,0,0,0)	66	121212232021020200000	
2243	7	13	70000	2	288(36,25,5,3,3,0,0,0,0)	66	121212232021020200000	
2244	7	13	70000	2	96(32,18,7,4,3,0,0,0,0)	64	121212212032010300000	
2245	7	13	70000	2	384(34,22,5,4,3,0,0,0,0)	64	121212212032010300000	
2246	7	13	70000	2	384(35,24,4,4,3,0,0,0,0)	64	121212212032010300000	
2247	7	13	70000	2	96(37,25,8,1,3,0,0,0,0)	70	121212232023020300000	
2248	7	13	70000	2	192(35,22,8,2,3,0,0,0,0)	68	121212232023020300000	
2249	7	13	70000	2	288(36,24,7,2,3,0,0,0,0)	68	121212232023020300000	
2250	7	13	70000	2	48(37,17,9,3,3,0,0,0,0)	66	121212321032010100000	
2251	7	13	70000	2	192(34,21,7,3,3,0,0,0,0)	66	121212321032010100000	
2252	7	13	70000	2	192(35,23,6,3,3,0,0,0,0)	66	121212321032010100000	
2253	7	13	70000	2	96(35,23,6,3,3,0,0,0,0)	66	112122213023010300000	
2254	7	13	70000	2	96(36,24,7,2,3,0,0,0,0)	68	112122213023010300000	
2255	7	13	70000	2	48(35,23,6,3,3,0,0,0,0)	66	112122231023010300000	
2256	7	13	70000	2	96(36,24,7,2,3,0,0,0,0)	68	112122232023010300000	
2257	7	13	70000	2	48(37,25,8,1,3,0,0,0,0)	70	112122232023010300000	
2258	7	13	70000	4	192(36,23,7,5,1,0,0,0,0)	70	112230203223000300001	
2259	7	13	70000	4	192(36,24,5,6,1,0,0,0,0)	68	123230103332000210001	
2260	7	13	70000	4	192(36,24,5,6,1,0,0,0,0)	68	123230202223000120001	
2261	7	13	70000	4	96(34,20,8,4,2,0,0,0,0)	68	123230202212000210001	
2262	7	13	70000	4	192(37,25,6,5,1,0,0,0,0)	70	123230202223000120002	
2263	7	13	70000	4	192(37,25,6,5,1,0,0,0,0)	70	123230202223000120002	
2264	7	13	70000	4	192(36,24,5,6,1,0,0,0,0)	68	123230202223000210001	
2265	7	13	70000	2	48(28,10,12,2,4,0,0,0,0)	64	112211102020101210000	
2266	7	13	70000	2	96(30,13,12,1,4,0,0,0,0)	66	112211102020101210000	
2267	7	13	70000	2	96(30,14,9,4,3,0,0,0,0)	64	112211203010201210000	
2268	7	13	70000	2	192(32,17,9,3,3,0,0,0,0)	66	112211203010201210000	
2269	7	13	70000	2	96(31,15,10,3,3,0,0,0,0)	66	112211302010202210000	
2270	7	13	70000	2	192(33,18,10,2,3,0,0,0,0)	68	112211302010202210000	
2271	7	13	70000	2	96(33,18,10,2,3,0,0,0,0)	68	112211203020102230000	
2272	7	13	70000	2	96(31,15,10,3,3,0,0,0,0)	66	112211203020102230000	
2273	7	13	70000	2	192(33,18,10,2,3,0,0,0,0)	68	112211203020102230000	
2274	7	13	70000	2	96(30,14,9,4,3,0,0,0,0)	64	112211302020101120000	
2275	7	13	70000	2	192(32,17,9,3,3,0,0,0,0)	66	112211302020101120000	
2276	7	13	70000	2	96(30,14,9,4,3,0,0,0,0)	64	112211302020101120000	
2277	7	13	70000	2	192(32,17,9,3,3,0,0,0,0)	66	112211302020101120000	
2278	7	13	70000	2	96(33,17,12,1,3,0,0,0,0)	70	112211203030201230000	
2279	7	13	70000	2	96(31,14,12,2,3,0,0,0,0)	68	112211203030201230000	
2280	7	13	70000	2	192(33,17,12,1,3,0,0,0,0)	70	112211203030201230000	
2281	7	13	70000	2	96(31,15,10,3,3,0,0,0,0)	66	112322102020101210000	
2282	7	13	70000	2	192(33,18,10,2,3,0,0,0,0)	68	112322102020101210000	
2283	7	13	70000	2	192(33,19,7,5,2,0,0,0,0)	66	112322203010201210000	
2284	7	13	70000	2	384(35,22,7,4,2,0,0,0,0)	68	112322203010201210000	
2285	7	13	70000	2	192(34,20,8,4,2,0,0,0,0)	68	112322302010202210000	
2286	7	13	70000	2	384(36,23,8,3,2,0,0,0,0)	70	112322302010202210000	
2287	7	13	70000	2	192(36,23,8,3,2,0,0,0,0)	70	112322203020102230000	
2288	7	13	70000	2	192(34,20,8,4,2,0,0,0,0)	68	112322203020102230000	
2289	7	13	70000	2	384(36,23,8,3,2,0,0,0,0)	70	112322203020102230000	
2290	7	13	70000	2	192(33,19,7,5,2,0,0,0,0)	66	112322302020101120000	
2291	7	13	70000	2	384(35,22,7,4,2,0,0,0,0)	68	112322302020101120000	
2292	7	13	70000	2	192(33,19,7,5,2,0,0,0,0)	66	112322302020101120000	
2293	7	13	70000	2	384(35,22,7,4,2,0,0,0,0)	68	112322302020101120000	
2294	7	13	70000	2	192(34,19,10,3,2,0,0,0,0)	70	112322203030201210000	
2295	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	112122203030201230000	
2296	7	13	70000	2	96(32,17,9,3,3,0,0,0,0)	66	112213102020101300000	
2297	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	112213203010201300000	
2298	7	13	70000	2	192(35,22,7,4,2,0,0,0,0)	68	1122133020102022300000	
2299	7	13	70000	2	96(35,22,7,4,2,0,0,0,0)	68	1122132030201022300000	
2300	7	13	70000	2	192(35,22,7,4,2,0,0,0,0)	68	1122132030201022300000	
2301	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	1122133020201012300000	
2302	7	13	70000	2	192(34,21,6,5,2,0,0,0,0)	66	1122133020201012300000	
2303	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	112213203030201230000	
2304	7	13	70000	2	192(35,21,9,3,2,0,0,0,0)	70	112213203030201230000	
2305	7	13	70000	2	96(35,21,9,3,2,0,0,0,0)	70	112231203030201230000	
2306	7	13	70000	2	96(33,18,9,4,2,0,0,0,0)	68	112231203030201230000	
2307	7	13	70000	2	192(35,21,9,3,2,0,0,0,0)	70	112231203030201230000	
2308	7	13	70000	2	192(32,16,10,4,2,0,0,0,0)	68	123212103020201210000	
2309	7	13	70000	2	384(34,19,10,3,2,0,0,0,0)	70	123212103020201210000	
2310	7	13	70000	2	96(32,15,12,3,2,0,0,0,0)	70	123212103020201210000	
2311	7	13	70000	2	96(34,19,10,3,2,0,0,0,0)	70	123212202020202210000	
2312	7	13	70000	2	96(32,16,10,4,2,0,0,0,0)	68	123212202020202210000	
2313	7	13	70000	2	288(34,19,10,3,2,0,0,0,0)	70	123212202020202210000	
2314	7	13	70000	2	192(32,16,10,4,2,0,0,0,0)	68	123212202020202210000	
2315	7	13	70000	2	384(34,19,10,3,2,0,0,0,0)	70	123212202020202210000	
2316	7	13	70000	2	192(32,15,12,3,2,0,0,0,0)	70	123321102020202210000	
2317	7	13	70000	2	96(32,15,12,3,2,0,0,0,0)	70	123321202020202210000	
2318	7	13	70000	2	192(32,15,12,3,2,0,0,0,0)	70	123321202020202210000	
2319	7	13	70000	2	48(33,18,9,4,2,0,0,0,0)	68	21331210202010202310000	
2320	7	13	70000	2	192(34,19,10,3,2,0,0,0,0)	70	213312203010201310000	
2321	7	13	70000	2	192(33,17,11,3,2,0,0,0,0)	70	213312203010201310000	
2322	7	13	70000	2	96(32,15,13,1,3,0,0,0,0)	70	213312102020101230000	
2323	7	13	70000	2	96(31,13,14,1,3,0,0,0,0)	70	213312102020101230000	
2324	7	13	70000	2	96(34,19,10,3,2,0,0,0,0)	70	213312102020103200000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOF	TERM	GRAPH MATRIX
2327	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	69	213312201020102220000	
2328	7	13	70000	2	48(33,18,9,4,2,0,0,0,0,0)	68	213312201020102310000	
2329	7	13	70000	2	192(33,17,11,3,2,0,0,0,0,0)	70	213312302020101130000	
2330	7	13	70000	2	384(34,19,10,3,2,0,0,0,0,0)	70	213312302020101220000	
2331	7	13	70000	2	192(33,17,11,3,2,0,0,0,0,0)	70	213312302020101310000	
2332	7	13	70000	2	192(34,20,8,4,2,0,0,0,0,0)	69	213221203010201220000	
2333	7	13	70000	2	192(33,18,9,4,2,0,0,0,0,0)	68	213221203010201310000	
2334	7	13	70000	2	96(32,16,11,2,3,0,0,0,0,0)	68	213221102020101220000	
2335	7	13	70000	2	96(31,14,12,2,3,0,0,0,0,0)	69	213221102020101310000	
2336	7	13	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	213221302010202220000	
2337	7	13	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	213221302010202220000	
2338	7	13	70000	2	288(35,21,9,3,2,0,0,0,0,0)	70	213221203020102220000	
2339	7	13	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	213221203020102310000	
2340	7	13	70000	2	192(33,18,9,4,2,0,0,0,0,0)	68	213221302020101130000	
2341	7	13	70000	2	384(34,20,8,4,2,0,0,0,0,0)	69	213221302020101220000	
2342	7	13	70000	2	192(33,18,9,4,2,0,0,0,0,0)	68	213221302020101310000	
2343	7	13	70000	2	192(33,17,11,3,2,0,0,0,0,0)	70	222311103020201220000	
2344	7	13	70000	2	192(32,15,12,3,2,0,0,0,0,0)	70	222311103020201310000	
2345	7	13	70000	2	96(32,15,12,3,2,0,0,0,0,0)	70	222311202030101130000	
2346	7	13	70000	2	288(33,17,11,3,2,0,0,0,0,0)	70	222311202030101220000	
2347	7	13	70000	2	192(32,15,12,3,2,0,0,0,0,0)	70	222311202030101310000	
2348	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	121123321023000200000	
2349	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	121123321023000300001	
2350	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1212123210230001000003	
2351	7	13	70000	2	192(35,23,5,5,2,0,0,0,0,0)	66	1212123210230002000002	
2352	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1212123210230003000001	
2353	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	1212323210120002000003	
2354	7	13	70000	2	96(33,19,7,5,2,0,0,0,0,0)	66	1212323210120002000001	
2355	7	13	70000	2	192(35,22,7,4,2,0,0,0,0,0)	69	1212323210120003000002	
2356	7	13	70000	2	288(36,23,8,3,2,0,0,0,0,0)	70	1212323210230002000000	
2357	7	13	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	1212323210230003000001	
2358	7	13	70000	2	48(32,18,6,6,2,0,0,0,0,0)	66	1213213210120001000002	
2359	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1213213210120002000003	
2360	7	13	70000	2	48(32,18,6,6,2,0,0,0,0,0)	66	1213213210120002000001	
2361	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1213213210120003000002	
2362	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	1213213210230001000003	
2363	7	13	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	1213213210230002000002	
2364	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	1213213210230003000001	
2365	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	1211232320230003000001	
2366	7	13	70000	2	96(36,24,6,4,2,0,0,0,0,0)	68	1212322120230002000002	
2367	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	1212322120230003000001	
2368	7	13	70000	2	48(34,20,8,4,2,0,0,0,0,0)	68	1212322320120002000001	
2369	7	13	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	1212322320120003000002	
2370	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	1123221220230003000001	
2371	7	13	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	1122133220230002000002	
2372	7	13	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	1122133220230003000001	
2373	7	13	70000	2	96(33,19,7,5,2,0,0,0,0,0)	66	1123222310120002000001	
2374	7	13	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	1123222310120003000002	
2375	7	13	70000	2	192(36,23,8,3,2,0,0,0,0,0)	70	1123222310230002000001	
2376	7	13	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	1123222310230003000001	
2377	7	13	70000	2	48(34,20,8,4,2,0,0,0,0,0)	68	1123223220120002000001	
2378	7	13	70000	2	96(36,23,8,3,2,0,0,0,0,0)	70	1123223220120003000002	
2379	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1121222310230003000001	
2380	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	1122132310230002000002	
2381	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	1122132310230003000001	
2382	7	13	70000	2	48(32,18,6,6,2,0,0,0,0,0)	66	1122312310120002000001	
2383	7	13	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	1122312310120003000002	
2384	7	13	70000	2	96(35,22,7,4,2,0,0,0,0,0)	68	1122312310230002000002	
2385	7	13	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	1122312310230003000001	
2386	7	13	70000	4	48(38,28,2,8,0,0,0,0,0,0)	70	1122302032230002000002	
2387	7	13	70000	2	48(34,20,8,4,2,0,0,0,0,0)	68	1122112030230002000002	
2388	7	13	70000	2	96(37,25,6,5,1,0,0,0,0,0)	70	11222203023000200002	
2389	7	13	70000	2	96(36,24,5,6,1,0,0,0,0,0)	68	1122312030230002000002	
2390	7	13	70000	2	96(35,22,6,6,1,0,0,0,0,0)	68	2132211020220002000002	
2391	7	13	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	2132212030220002000002	
2392	7	13	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	2133121020220002000002	
2393	7	13	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	2223112020130001000002	
2394	7	13	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	2223111030220002000002	
2395	7	13	70000	2	48(35,21,8,5,1,0,0,0,0,0)	70	2223112020220001000003	
2396	7	13	70000	8	384(37,25,7,3,2,0,0,0,0,0)	70	1123222310320003200000	
2397	7	13	70000	8	768(37,25,7,3,2,0,0,0,0,0)	70	1212323210230003200000	
2398	7	13	70000	8	384(37,25,7,3,2,0,0,0,0,0)	70	1212323210320003200000	
2399	7	13	70000	8	192(36,24,6,4,2,0,0,0,0,0)	68	1122312310320003200000	
2400	7	13	70000	8	384(36,24,6,4,2,0,0,0,0,0)	68	1213213210230003200000	
2401	7	13	70000	8	192(36,24,6,4,2,0,0,0,0,0)	68	1213213210320003200000	
2402	7	13	70000	16	1536(35,21,9,3,2,0,0,0,0,0)	70	1233212300120013200000	
2403	7	13	70000	16	1536(35,21,9,3,2,0,0,0,0,0)	70	1233213200210013200000	
2404	7	13	70000	16	768(33,17,12,1,3,0,0,0,0,0)	70	1233211200210013200000	
2405	7	12	70000	4	192(36,24,6,4,2,0,0,0,0,0)	68	3302002102122110000003	
2406	7	12	70000	4	384(37,26,5,4,2,0,0,0,0,0)	68	3302002102122110000002	
2407	7	12	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	2302002202132110000002	
2408	7	12	70000	4	576(38,27,6,3,2,0,0,0,0,0)	70	2302002202132110000003	
2409	7	12	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	1203002301123210000002	
2410	7	12	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	1203002301123210000003	
2411	7	12	70000	4	192(36,24,6,4,2,0,0,0,0,0)	68	3202002102123110000002	
2412	7	12	70000	4	384(37,26,5,4,2,0,0,0,0,0)	68	3202002102123110000003	
2413	7	12	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	2202002202133110000002	
2414	7	12	70000	4	576(38,27,6,3,2,0,0,0,0,0)	70	2202002202133110000003	
2415	7	12	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	1303002301122210000002	
2416	7	12	70000	4	384(37,25,7,3,2,0,0,0,0,0)	70	1303002301122210000003	
2417	7	12	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	2203002201131210000003	
2418	7	12	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	2103002201132110000003	
2419	7	12	70000	6	144(36,24,4,8,0,0,0,0,0,0)	70	1303002000102210003321	
2420	7	12	70000	6	576(38,28,2,8,0,0,0,0,0,0)	70	2303002000102210003321	
2421	7	12	70000	6	576(39,30,1,8,0,0,0,0,0,0)	70	3303002000102210003321	
2422	7	12	70000	8	768(35,21,8,5,1,0,0,0,0,0)	70	3202003010123120002010	
2423	7	12	70000	8	768(35,21,8,5,1,0,0,0,0,0)	70	2201003010133220002010	
2424	7	12	70000					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COORD	TERM	GRAPH MATRIX
2430	7	12	70000	8	192(34,20,8,4,2,0,0,0,0,0)	68	310300201012221002010	
2431	7	12	70000	8	384(36,23,8,3,2,0,0,0,0,0)	70	310300201012221003020	
2432	7	12	70000	8	192(34,20,8,4,2,0,0,0,0,0)	68	210200201013231002010	
2433	7	12	70000	8	384(36,23,8,3,2,0,0,0,0,0)	70	210200201013231003020	
2434	7	12	70000	8	768(36,24,5,6,1,0,0,0,0,0)	69	230300201013221002010	
2435	7	12	70000	8	768(36,24,5,6,1,0,0,0,0,0)	68	220300301013122002010	
2436	7	12	70000	8	1536(38,27,5,5,1,0,0,0,0,0)	70	230300201013221003020	
2437	7	12	70000	8	1536(38,27,5,5,1,0,0,0,0,0)	70	220300301013122003020	
2438	7	12	70000	8	384(34,20,8,4,2,0,0,0,0,0)	68	210300201013221002010	
2439	7	12	70000	8	768(36,23,8,3,2,0,0,0,0,0)	70	210300201013221003020	
2440	7	12	70000	8	384(36,24,5,6,1,0,0,0,0,0)	68	230200201013231002010	
2441	7	12	70000	8	384(36,24,5,6,1,0,0,0,0,0)	68	220200301013132002010	
2442	7	12	70000	8	768(38,27,5,5,1,0,0,0,0,0)	70	230200201013231003020	
2443	7	12	70000	8	768(38,27,5,5,1,0,0,0,0,0)	70	220200301013132003020	
2444	7	12	70000	2	96(32,16,10,4,2,0,0,0,0,0)	68	210110310213220000001	
2445	7	12	70000	2	384(34,20,8,4,2,0,0,0,0,0)	68	210110310213220000002	
2446	7	12	70000	2	384(35,22,7,4,2,0,0,0,0,0)	68	210110310213220000003	
2447	7	12	70000	2	96(32,17,8,5,2,0,0,0,0,0)	66	210110220113220000001	
2448	7	12	70000	2	384(34,21,6,5,2,0,0,0,0,0)	66	210110220113220000002	
2449	7	12	70000	2	384(35,23,5,5,2,0,0,0,0,0)	66	210110220113220000003	
2450	7	12	70000	2	96(33,17,11,3,2,0,0,0,0,0)	70	110210210223320000001	
2451	7	12	70000	2	480(35,21,9,3,2,0,0,0,0,0)	70	110210210223320000002	
2452	7	12	70000	2	480(36,23,8,3,2,0,0,0,0,0)	70	110210210223320000003	
2453	7	12	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	220110310213320000001	
2454	7	12	70000	2	768(36,23,8,3,2,0,0,0,0,0)	70	220110310213320000002	
2455	7	12	70000	2	768(37,25,7,3,2,0,0,0,0,0)	70	220110310213320000003	
2456	7	12	70000	2	192(34,20,8,4,2,0,0,0,0,0)	68	220110220113320000001	
2457	7	12	70000	2	768(36,24,6,4,2,0,0,0,0,0)	68	220110220113320000002	
2458	7	12	70000	2	768(37,26,5,4,2,0,0,0,0,0)	68	220110220113320000003	
2459	7	12	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	120210210223220000001	
2460	7	12	70000	2	672(36,23,8,3,2,0,0,0,0,0)	70	120210210223220000002	
2461	7	12	70000	2	768(37,25,7,3,2,0,0,0,0,0)	70	120210210223220000003	
2462	7	12	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	120120230112320000001	
2463	7	12	70000	2	384(36,24,6,4,2,0,0,0,0,0)	68	120120230112320000002	
2464	7	12	70000	2	384(37,26,5,4,2,0,0,0,0,0)	68	120120230112320000003	
2465	7	12	70000	2	48(35,21,9,3,2,0,0,0,0,0)	70	120120320212320000001	
2466	7	12	70000	2	192(37,25,7,3,2,0,0,0,0,0)	70	120120320212320000002	
2467	7	12	70000	2	192(38,27,6,3,2,0,0,0,0,0)	70	120120320212320000003	
2468	7	12	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	220110130213120000002	
2469	7	12	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	220110130213120000003	
2470	7	12	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	220110220313120000002	
2471	7	12	70000	2	192(36,23,8,3,2,0,0,0,0,0)	70	220110220313120000003	
2472	7	12	70000	2	96(34,21,6,5,2,0,0,0,0,0)	66	220110220113120000002	
2473	7	12	70000	2	192(35,23,5,5,2,0,0,0,0,0)	66	220110220113120000003	
2474	7	12	70000	2	96(34,20,8,4,2,0,0,0,0,0)	68	220110310213120000002	
2475	7	12	70000	2	192(35,22,7,4,2,0,0,0,0,0)	68	220110310213120000003	
2476	7	12	70000	2	576(37,25,7,3,2,0,0,0,0,0)	70	230110130213220000003	
2477	7	12	70000	2	384(36,23,8,3,2,0,0,0,0,0)	70	230110130213220000002	
2478	7	12	70000	2	576(37,26,5,4,2,0,0,0,0,0)	68	230110220113220000003	
2479	7	12	70000	2	384(36,24,6,4,2,0,0,0,0,0)	68	230110220113220000002	
2480	7	12	70000	2	192(36,23,8,3,2,0,0,0,0,0)	70	130210210223120000003	
2481	7	12	70000	2	96(35,21,9,3,2,0,0,0,0,0)	70	130210210223120000002	
2482	7	12	70000	2	576(37,25,7,3,2,0,0,0,0,0)	70	230110310213220000003	
2483	7	12	70000	2	384(36,23,8,3,2,0,0,0,0,0)	70	230110310213220000002	
2484	7	12	70000	2	144(37,27,3,5,2,0,0,0,0,0)	66	130120120212220000003	
2485	7	12	70000	2	96(36,25,4,5,2,0,0,0,0,0)	66	130120120212220000002	
2486	7	12	70000	2	288(37,26,5,4,2,0,0,0,0,0)	68	130120230112220000003	
2487	7	12	70000	2	192(36,24,6,4,2,0,0,0,0,0)	68	130120230112220000002	
2488	7	12	70000	2	144(38,27,6,3,2,0,0,0,0,0)	70	130120320212220000003	
2489	7	12	70000	2	96(37,25,7,3,2,0,0,0,0,0)	70	130120320212220000002	
2490	7	12	70000	12	576(32,15,13,2,1,1,0,0,0,0)	70	120210120123021000001	
2491	7	12	70000	12	1152(33,17,12,2,1,1,0,0,0,0)	70	130210120123021000001	
2492	7	12	70000	12	576(33,17,12,2,1,1,0,0,0,0)	70	130120210132021000001	
2493	7	12	70000	12	288(32,15,13,2,1,1,0,0,0,0)	70	120120210132021000001	
2494	7	12	70000	12	2304(34,19,11,2,1,1,0,0,0,0)	70	220310110222011000002	
2495	7	12	70000	12	4032(35,21,10,2,1,1,0,0,0,0)	70	130210120123021000002	
2496	7	12	70000	12	2304(35,21,10,2,1,1,0,0,0,0)	70	130120210132021000002	
2497	7	12	70000	12	1152(34,19,11,2,1,1,0,0,0,0)	70	120210210223201100002	
2498	7	12	70000	12	288(34,19,11,2,1,1,0,0,0,0)	70	220130110222011000002	
2499	7	12	70000	12	1152(35,21,10,2,1,1,0,0,0,0)	70	230130110222011000002	
2500	7	12	70000	12	2304(35,21,10,2,1,1,0,0,0,0)	70	230310110222011000002	
2501	7	12	70000	12	1152(35,21,10,2,1,1,0,0,0,0)	70	130210210232011000002	
2502	7	12	70000	12	288(35,21,10,2,1,1,0,0,0,0)	70	130120120223011000002	
2503	7	12	70000	12	576(34,19,11,2,1,1,0,0,0,0)	70	320120210112021000002	
2504	7	12	70000	12	1152(35,21,10,2,1,1,0,0,0,0)	70	330120210112021000002	
2505	7	12	70000	12	576(35,21,10,2,1,1,0,0,0,0)	70	130120230112021000002	
2506	7	12	70000	12	1152(35,21,10,2,1,1,0,0,0,0)	70	230110220113021000002	
2507	7	12	70000	12	4032(36,23,9,2,1,1,0,0,0,0)	70	230310110222011000003	
2508	7	12	70000	12	1152(36,23,9,2,1,1,0,0,0,0)	70	230130110222011000003	
2509	7	12	70000	12	2016(36,23,9,2,1,1,0,0,0,0)	70	130210210232011000003	
2510	7	12	70000	12	2304(36,23,9,2,1,1,0,0,0,0)	70	330120210112021000003	
2511	7	12	70000	12	576(36,23,9,2,1,1,0,0,0,0)	70	330120120221011000003	
2512	7	12	70000	12	1152(36,23,9,2,1,1,0,0,0,0)	70	130230210212011000003	
2513	7	12	70000	12	288(33,17,12,2,1,1,0,0,0,0)	70	230110110213022000001	
2514	7	12	70000	12	1152(35,21,10,2,1,1,0,0,0,0)	70	230110110213022000002	
2515	7	12	70000	12	1152(36,23,9,2,1,1,0,0,0,0)	70	330210210212011000003	
2516	7	12	70000	1	24(32,18,6,6,2,0,0,0,0,0)	66	110210122012210000002	
2517	7	12	70000	1	48(33,20,5,6,2,0,0,0,0,0)	66	110210122012210000003	
2518	7	12	70000	1	240(36,24,5,6,1,0,0,0,0,0)	68	110210122023320000003	
2519	7	12	70000	1	48(33,18,8,6,1,0,0,0,0,0)	68	110210122023320000002	
2520	7	12	70000	1	240(35,22,6,6,1,0,0,0,0,0)	68	110210122023320000002	
2521	7	12	70000	1	48(34,20,8,4,2,0,0,0,0,0)	68	110210233012210000002	
2522	7	12	70000	1	96(35,22,7,4,2,0,0,0,0,0)	68	110210233012210000003	
2523	7	12	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	110210233012230000001	
2524	7	12	70000	1	192(36,24,5,6,1,0,0,0,0,0)	68	110210233012230000002	
2525	7	12	70000	1	192(37,26,4,6,1,0,0,0,0,0)	68	110210233012230000003	
2526	7	12	70000	1	96(35,23,4,7,1,0,0,0,0,0)	68	110320122012220000002	
2527	7	12	70000	1</				

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2533	7	12	70000	1	288(38,27,5,5,1,0,0,0,0)	70	120320123012320000003	
2534	7	12	70000	1	48(35,22,6,6,1,0,0,0,0)	68	120120232012320000001	
2535	7	12	70000	1	192(37,26,4,6,1,0,0,0,0)	68	120120232012320000002	
2536	7	12	70000	1	192(38,28,3,6,1,0,0,0,0)	68	120120232012320000003	
2537	7	12	70000	1	48(34,20,8,4,2,0,0,0,0)	68	120210123012310000002	
2538	7	12	70000	1	96(35,22,7,4,2,0,0,0,0)	68	120210123012310000003	
2539	7	12	70000	1	144(36,23,7,5,1,0,0,0,0)	70	120210123023220000002	
2540	7	12	70000	1	192(37,25,6,5,1,0,0,0,0)	70	120210123023220000003	
2541	7	12	70000	1	48(35,21,9,3,2,0,0,0,0)	70	120210232012310000002	
2542	7	12	70000	1	96(36,23,8,3,2,0,0,0,0)	70	120210232012310000003	
2543	7	12	70000	1	96(37,26,4,6,1,0,0,0,0)	68	120230123012310000003	
2544	7	12	70000	1	48(36,24,5,6,1,0,0,0,0)	68	120230123012310000002	
2545	7	12	70000	1	96(38,27,5,5,1,0,0,0,0)	70	120230232012310000003	
2546	7	12	70000	1	48(37,25,6,5,1,0,0,0,0)	70	120230232012310000002	
2547	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	120210232012330000001	
2548	7	12	70000	1	192(37,25,6,5,1,0,0,0,0)	70	120210232012330000002	
2549	7	12	70000	1	192(38,27,5,5,1,0,0,0,0)	70	120210232012330000003	
2550	7	12	70000	1	96(35,21,8,5,1,0,0,0,0)	70	210310132013220000002	
2551	7	12	70000	1	144(36,23,7,5,1,0,0,0,0)	70	210310132013220000003	
2552	7	12	70000	1	96(35,21,8,5,1,0,0,0,0)	70	210310132023310000002	
2553	7	12	70000	1	144(36,23,7,5,1,0,0,0,0)	70	210310132023310000003	
2554	7	12	70000	1	48(35,22,6,6,1,0,0,0,0)	68	210220132013210000002	
2555	7	12	70000	1	96(36,24,5,6,1,0,0,0,0)	68	210220132013210000003	
2556	7	12	70000	1	48(36,23,7,5,1,0,0,0,0)	70	21022023013210000002	
2557	7	12	70000	1	96(37,25,6,5,1,0,0,0,0)	70	21022023013210000003	
2558	7	12	70000	2	384(34,20,8,4,2,0,0,0,0)	68	220310310011122000200	
2559	7	12	70000	2	384(35,22,7,4,2,0,0,0,0)	68	220310310011122000300	
2560	7	12	70000	2	96(32,16,10,4,2,0,0,0,0)	68	220310310011122000100	
2561	7	12	70000	2	384(35,21,9,3,2,0,0,0,0)	70	110210320012232000200	
2562	7	12	70000	2	384(36,23,8,3,2,0,0,0,0)	70	110210320012232000300	
2563	7	12	70000	2	96(33,17,11,3,2,0,0,0,0)	70	110210320012232000100	
2564	7	12	70000	2	480(35,21,9,3,2,0,0,0,0)	70	220220310011132000200	
2565	7	12	70000	2	480(36,23,8,3,2,0,0,0,0)	70	220220310011132000300	
2566	7	12	70000	2	96(33,17,11,3,2,0,0,0,0)	70	220220310011132000100	
2567	7	12	70000	2	288(36,24,6,4,2,0,0,0,0)	68	230310220011221000200	
2568	7	12	70000	2	142(37,26,5,4,2,0,0,0,0)	68	230310220011221000300	
2569	7	12	70000	2	96(34,20,8,4,2,0,0,0,0)	68	230310220011221000100	
2570	7	12	70000	2	288(36,23,8,3,2,0,0,0,0)	70	120210230012331000200	
2571	7	12	70000	2	192(37,25,7,3,2,0,0,0,0)	70	120210230012331000300	
2572	7	12	70000	2	96(34,19,10,3,2,0,0,0,0)	70	120210230012331000100	
2573	7	12	70000	2	672(36,23,8,3,2,0,0,0,0)	70	230310310011222000200	
2574	7	12	70000	2	576(37,25,7,3,2,0,0,0,0)	70	230310310011222000300	
2575	7	12	70000	2	192(34,19,10,3,2,0,0,0,0)	70	230310310011222000100	
2576	7	12	70000	2	384(37,25,7,3,2,0,0,0,0)	70	230220220011231000200	
2577	7	12	70000	2	384(38,27,6,3,2,0,0,0,0)	70	230220220011231000300	
2578	7	12	70000	2	96(35,21,9,3,2,0,0,0,0)	70	230220220011231000100	
2579	7	12	70000	2	480(35,21,9,3,2,0,0,0,0)	70	210220310011232000200	
2580	7	12	70000	2	480(36,23,8,3,2,0,0,0,0)	70	210220310011232000300	
2581	7	12	70000	2	96(33,17,11,3,2,0,0,0,0)	70	210220310011232000100	
2582	7	12	70000	2	96(34,20,8,4,2,0,0,0,0)	68	230220310011212000100	
2583	7	12	70000	2	384(36,24,6,4,2,0,0,0,0)	68	230220310011212000200	
2584	7	12	70000	2	384(37,26,5,4,2,0,0,0,0)	68	230220310011212000300	
2585	7	12	70000	2	96(35,21,9,3,2,0,0,0,0)	70	120120320012322000100	
2586	7	12	70000	2	384(37,25,7,3,2,0,0,0,0)	70	120120320012322000200	
2587	7	12	70000	2	384(38,27,6,3,2,0,0,0,0)	70	120120320012322000300	
2588	7	12	70000	2	384(35,22,7,4,2,0,0,0,0)	68	210310310011222000300	
2589	7	12	70000	2	96(32,16,10,4,2,0,0,0,0)	68	210310310011222000100	
2590	7	12	70000	2	384(34,20,8,4,2,0,0,0,0)	68	210310310011222000200	
2591	7	12	70000	2	384(36,23,8,3,2,0,0,0,0)	70	120210320012132000300	
2592	7	12	70000	2	96(33,17,11,3,2,0,0,0,0)	70	120210320012132000100	
2593	7	12	70000	2	384(35,21,9,3,2,0,0,0,0)	70	120210320012132000200	
2594	7	12	70000	2	96(34,19,10,3,2,0,0,0,0)	70	230130310011222000100	
2595	7	12	70000	2	384(36,23,8,3,2,0,0,0,0)	70	230130310011222000200	
2596	7	12	70000	2	384(37,25,7,3,2,0,0,0,0)	70	230130310011222000300	
2597	7	12	70000	2	288(36,24,6,4,2,0,0,0,0)	68	220310220011321000200	
2598	7	12	70000	2	288(37,26,5,4,2,0,0,0,0)	68	220310220011321000300	
2599	7	12	70000	2	96(34,20,8,4,2,0,0,0,0)	68	220310220011321000100	
2600	7	12	70000	2	288(36,23,8,3,2,0,0,0,0)	70	130210230012231000200	
2601	7	12	70000	2	288(37,25,7,3,2,0,0,0,0)	70	130210230012231000300	
2602	7	12	70000	2	96(34,19,10,3,2,0,0,0,0)	70	130210230012231000100	
2603	7	12	70000	2	672(36,23,8,3,2,0,0,0,0)	70	220310310011322000200	
2604	7	12	70000	2	672(37,25,7,3,2,0,0,0,0)	70	220310310011322000300	
2605	7	12	70000	2	192(34,19,10,3,2,0,0,0,0)	70	220310310011322000100	
2606	7	12	70000	2	384(37,25,7,3,2,0,0,0,0)	70	220220220011331000200	
2607	7	12	70000	2	288(38,27,6,3,2,0,0,0,0)	70	220220220011331000300	
2608	7	12	70000	2	96(35,21,9,3,2,0,0,0,0)	70	220220220011331000100	
2609	7	12	70000	2	96(34,20,8,4,2,0,0,0,0)	68	220220310011312000100	
2610	7	12	70000	2	384(36,24,6,4,2,0,0,0,0)	68	220220310011312000200	
2611	7	12	70000	2	384(37,26,5,4,2,0,0,0,0)	68	220220310011312000300	
2612	7	12	70000	2	96(35,21,9,3,2,0,0,0,0)	70	130120320012222000100	
2613	7	12	70000	2	384(37,25,7,3,2,0,0,0,0)	70	130120320012222000200	
2614	7	12	70000	2	384(38,27,6,3,2,0,0,0,0)	70	130120320012222000300	
2615	7	12	70000	2	96(34,19,10,3,2,0,0,0,0)	70	220130310011322000100	
2616	7	12	70000	2	384(36,23,8,3,2,0,0,0,0)	70	220130310011322000200	
2617	7	12	70000	2	384(37,25,7,3,2,0,0,0,0)	70	220130310011322000300	
2618	7	12	70000	1	192(35,22,7,4,2,0,0,0,0)	68	110210122023301000003	
2619	7	12	70000	1	48(32,16,10,4,2,0,0,0,0)	68	110210122023301000002	
2620	7	12	70000	1	192(34,20,8,4,2,0,0,0,0)	68	110210122023301000001	
2621	7	12	70000	1	48(34,20,8,4,2,0,0,0,0)	68	110210233012201000002	
2622	7	12	70000	1	96(35,22,7,4,2,0,0,0,0)	68	110210233012201000003	
2623	7	12	70000	1	48(34,21,6,5,2,0,0,0,0)	66	110320122012202000001	
2624	7	12	70000	1	192(36,25,4,5,2,0,0,0,0)	66	110320122012202000002	
2625	7	12	70000	1	192(37,27,3,5,2,0,0,0,0)	66	110320122012202000003	
2626	7	12	70000	1	96(34,19,10,3,2,0,0,0,0)	70	110320122023301000001	
2627	7	12	70000	1	336(36,23,8,3,2,0,0,0,0)	70	110320122023301000002	
2628	7	12	70000	1	336(37,25,7,3,2,0,0,0,0)	70	110320122023301000003	
2629	7	12	70000	1	96(36,23,8,3,2,0,0,0,0)	70	110320233012201000002	
2630	7	12	70000	1	192(37,25,7,3,2,0,0,0,0)	70	110320233012201000003	
2631	7	12	70000	1	192(35,23,5,5,2,0,0,0,0)	66	120120121023201000003	
2632	7	12	70000	1	48(32,17,8,5,2,0,0,0,0)	66	120120121023201000002	
2633	7	12	70000	1	192(34,21,6,5,2,0,0,0,0)	66	120120121023201000001	
2634	7	12	700					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
2636	7	12	70000	1	144(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120210123023201000003
2637	7	12	70000	1	48(35,21,	9, 3, 2, 0, 0, 0, 0)	70	120210232012301000002
2638	7	12	70000	1	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120210232012301000003
2639	7	12	70000	1	48(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120230121012302000001
2640	7	12	70000	1	192(36,24,	6, 4, 2, 0, 0, 0, 0)	68	120230121012302000002
2641	7	12	70000	1	192(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120230121012302000003
2642	7	12	70000	1	288(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120230121023201000003
2643	7	12	70000	1	96(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120230121023201000001
2644	7	12	70000	1	336(36,24,	6, 4, 2, 0, 0, 0, 0)	68	120230121023201000002
2645	7	12	70000	1	48(36,24,	6, 4, 2, 0, 0, 0, 0)	68	120230123012102000002
2646	7	12	70000	1	96(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120230123012102000003
2647	7	12	70000	1	96(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120230232012101000003
2648	7	12	70000	1	192(35,23,	5, 5, 2, 0, 0, 0, 0)	66	120210121023201000003
2649	7	12	70000	1	48(32,17,	8, 5, 2, 0, 0, 0, 0)	66	120210121023201000001
2650	7	12	70000	1	192(34,21,	6, 5, 2, 0, 0, 0, 0)	66	120210121023201000002
2651	7	12	70000	1	48(35,23,	5, 5, 2, 0, 0, 0, 0)	66	120210232012101000003
2652	7	12	70000	1	48(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120320121012302000001
2653	7	12	70000	1	192(36,24,	6, 4, 2, 0, 0, 0, 0)	68	120320121012302000002
2654	7	12	70000	1	192(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120320121012302000003
2655	7	12	70000	1	336(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120320121023201000003
2656	7	12	70000	1	96(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120320121023201000001
2657	7	12	70000	1	336(36,24,	6, 4, 2, 0, 0, 0, 0)	68	120320121023201000002
2658	7	12	70000	1	48(36,24,	6, 4, 2, 0, 0, 0, 0)	68	120320123012102000002
2659	7	12	70000	1	96(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120320123012102000003
2660	7	12	70000	1	96(37,26,	5, 4, 2, 0, 0, 0, 0)	68	120320232012101000003
2661	7	12	70000	1	96(35,22,	7, 4, 2, 0, 0, 0, 0)	68	130120122023101000003
2662	7	12	70000	1	48(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130120122023101000002
2663	7	12	70000	1	48(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130120231012201000002
2664	7	12	70000	1	96(35,22,	7, 4, 2, 0, 0, 0, 0)	68	130120231012201000003
2665	7	12	70000	1	144(37,25,	7, 3, 2, 0, 0, 0, 0)	70	130230122023101000003
2666	7	12	70000	1	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130230122023101000002
2667	7	12	70000	1	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130230231012201000002
2668	7	12	70000	1	192(37,25,	7, 3, 2, 0, 0, 0, 0)	70	130230231012201000003
2669	7	12	70000	1	144(38,27,	6, 3, 2, 0, 0, 0, 0)	70	130230122012202000003
2670	7	12	70000	1	76(37,25,	7, 3, 2, 0, 0, 0, 0)	70	130230122012202000002
2671	7	12	70000	1	96(35,22,	7, 4, 2, 0, 0, 0, 0)	68	130210122023101000003
2672	7	12	70000	1	48(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130210122023101000002
2673	7	12	70000	1	48(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130210231012201000002
2674	7	12	70000	1	96(35,22,	7, 4, 2, 0, 0, 0, 0)	68	130210231012201000003
2675	7	12	70000	1	144(37,25,	7, 3, 2, 0, 0, 0, 0)	70	130320122023101000003
2676	7	12	70000	1	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130320122023101000002
2677	7	12	70000	1	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130320231012201000002
2678	7	12	70000	1	192(37,25,	7, 3, 2, 0, 0, 0, 0)	70	130320231012201000003
2679	7	12	70000	1	144(38,27,	6, 3, 2, 0, 0, 0, 0)	70	130320122012202000003
2680	7	12	70000	1	96(37,25,	7, 3, 2, 0, 0, 0, 0)	70	130320122012202000002
2681	7	12	70000	1	144(36,23,	8, 3, 2, 0, 0, 0, 0)	70	220130131022201000003
2682	7	12	70000	1	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	220130131022201000002
2683	7	12	70000	1	48(36,23,	8, 3, 2, 0, 0, 0, 0)	70	220130222013101000003
2684	7	12	70000	1	240(37,25,	7, 3, 2, 0, 0, 0, 0)	70	220220131022201000003
2685	7	12	70000	1	192(36,23,	8, 3, 2, 0, 0, 0, 0)	70	220220131022201000002
2686	7	12	70000	1	96(37,25,	7, 3, 2, 0, 0, 0, 0)	70	220220222013101000003
2687	7	12	70000	1	144(36,23,	8, 3, 2, 0, 0, 0, 0)	70	220310131022201000003
2688	7	12	70000	1	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	220310131022201000002
2689	7	12	70000	1	48(36,23,	8, 3, 2, 0, 0, 0, 0)	70	220310222013101000003
2690	7	12	70000	2	48(30,14,	8, 6, 2, 0, 0, 0, 0)	66	120210210012110000102
2691	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	120210320012110000102
2692	7	12	70000	2	48(30,14,	8, 6, 2, 0, 0, 0, 0)	66	110210210012210000201
2693	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	120210230012110000102
2694	7	12	70000	2	96(33,17,10,	5, 1, 0, 0, 0, 0)	70	230310310022110000102
2695	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	230310220022110000102
2696	7	12	70000	2	96(33,17,10,	5, 1, 0, 0, 0, 0)	70	310210210023320000301
2697	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	110210320012210000102
2698	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120210320012110000203
2699	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	110210320012210000201
2700	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	110210320012210000302
2701	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	220220310013110000102
2702	7	12	70000	2	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	220220220013110000102
2703	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	110320210012220000301
2704	7	12	70000	2	192(33,17,10,	5, 1, 0, 0, 0, 0)	70	130320210023110000102
2705	7	12	70000	2	192(33,17,10,	5, 1, 0, 0, 0, 0)	70	110320210023310000201
2706	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	110320320012220000103
2707	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	110320320012220000202
2708	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	110320320012220000301
2709	7	12	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	220310310022100000201
2710	7	12	70000	2	96(35,21,	9, 5, 1, 0, 0, 0, 0)	70	220310220022100000201
2711	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	220310310022100000102
2712	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220310220022100000102
2713	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	210220310013210000201
2714	7	12	70000	2	96(34,20,	7, 6, 1, 0, 0, 0, 0)	68	210220220013210000201
2715	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	120320210023210000201
2716	7	12	70000	2	48(34,19,	9, 5, 1, 0, 0, 0, 0)	70	120320120023210000201
2717	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	210220310013210000302
2718	7	12	70000	2	192(36,23,	7, 5, 1, 0, 0, 0, 0)	70	120320230012120000202
2719	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	210220310013210000102
2720	7	12	70000	2	96(34,20,	7, 6, 1, 0, 0, 0, 0)	68	210220220013210000102
2721	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	120320210023210000102
2722	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	230220310013210000102
2723	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	230220220013210000102
2724	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120320210012320000301
2725	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120320320012120000103
2726	7	12	70000	2	192(36,23,	7, 5, 1, 0, 0, 0, 0)	70	120320320012120000202
2727	7	12	70000	2	96(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120210230012310000102
2728	7	12	70000	2	192(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130210320012210000302
2729	7	12	70000	2	96(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120210230012310000201
2730	7	12	70000	2	192(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130210230012210000302
2731	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	130210210012210000102
2732	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130210320012210000102
2733	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	120210210012310000201
2734	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130210230012210000102
2735	7	12	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	120210210023220000301
2736	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120210320012310000102
2737	7	12	70000	2	384(36,23,	8, 3, 2, 0, 0, 0, 0)	70	130210320012210000203
2738	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	120210320012310000201

GRAPH	N	L	C	SYMMETRY NUMBR	COUNT	CODE	TERM	GRAPH MATRIX
2739	7	12	70000	2	384(36,23,8,3,2,0,0,0,0,0)	70	120210320012310000302	
2740	7	12	70000	2	192(38,27,5,5,1,0,0,0,0,0)	70	130230230012210000302	
2741	7	12	70000	2	96(36,24,5,6,1,0,0,0,0,0)	68	120230230012310000102	
2742	7	12	70000	2	192(38,27,5,5,1,0,0,0,0,0)	70	130230320012210000302	
2743	7	12	70000	2	96(36,24,5,6,1,0,0,0,0,0)	68	120230230012310000201	
2744	7	12	70000	2	192(36,24,5,6,1,0,0,0,0,0)	68	130230230012210000102	
2745	7	12	70000	2	96(34,21,5,7,1,0,0,0,0,0)	68	130230210012210000102	
2746	7	12	70000	2	192(36,24,5,6,1,0,0,0,0,0)	68	130230320012210000102	
2747	7	12	70000	2	96(34,21,5,7,1,0,0,0,0,0)	68	120230210012310000201	
2748	7	12	70000	2	384(38,27,5,5,1,0,0,0,0,0)	70	120230320012310000302	
2749	7	12	70000	2	192(36,24,5,6,1,0,0,0,0,0)	68	120230320012310000102	
2750	7	12	70000	2	384(38,27,5,5,1,0,0,0,0,0)	70	130230320012210000203	
2751	7	12	70000	2	192(36,24,5,6,1,0,0,0,0,0)	68	120230320012310000201	
2752	7	12	70000	2	96(33,17,10,5,1,0,0,0,0,0)	70	210310310022310000201	
2753	7	12	70000	2	96(34,19,9,5,1,0,0,0,0,0)	70	210310220022310000201	
2754	7	12	70000	2	96(33,17,10,5,1,0,0,0,0,0)	70	210310310022310000102	
2755	7	12	70000	2	96(34,19,9,5,1,0,0,0,0,0)	70	210310220022310000102	
2756	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	220220310013310000201	
2757	7	12	70000	2	288(36,23,7,5,1,0,0,0,0,0)	70	220220220013310000201	
2758	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	220220310013310000102	
2759	7	12	70000	2	288(36,23,7,5,1,0,0,0,0,0)	70	220220220013310000102	
2760	7	12	70000	4	576(38,28,2,8,0,0,0,0,0,0)	70	220100133213320002000	
2761	7	12	70000	4	384(39,30,1,8,0,0,0,0,0,0)	70	220100133213320003000	
2762	7	12	70000	4	192(36,24,4,8,0,0,0,0,0,0)	70	220100133213320001000	
2763	7	12	70000	4	48(36,24,4,8,0,0,0,0,0,0)	70	210200132313230001000	
2764	7	12	70000	4	192(38,28,2,8,0,0,0,0,0,0)	70	210200132313230002000	
2765	7	12	70000	4	192(39,30,1,8,0,0,0,0,0,0)	70	210200132313230003000	
2766	7	12	70000	2	96(36,24,4,8,0,0,0,0,0,0)	70	210300132013220000301	
2767	7	12	70000	2	96(36,24,4,8,0,0,0,0,0,0)	70	210300132013220000103	
2768	7	12	70000	2	192(37,26,3,8,0,0,0,0,0,0)	70	210300132013220000202	
2769	7	12	70000	2	96(37,25,5,7,0,0,0,0,0,0)	70	210300223013220000301	
2770	7	12	70000	2	96(37,25,5,7,0,0,0,0,0,0)	70	210300223013220000103	
2771	7	12	70000	2	192(38,27,4,7,0,0,0,0,0,0)	70	210300223013220000202	
2772	7	12	70000	2	96(38,27,4,7,0,0,0,0,0,0)	70	220200133013310000302	
2773	7	12	70000	2	48(36,24,4,8,0,0,0,0,0,0)	70	220200133013310000102	
2774	7	12	70000	2	96(38,27,4,7,0,0,0,0,0,0)	70	220200133013310000203	
2775	7	12	70000	2	48(36,24,4,8,0,0,0,0,0,0)	70	220200133013310000201	
2776	7	12	70000	2	96(38,27,4,7,0,0,0,0,0,0)	70	220200222013310000302	
2777	7	12	70000	2	48(36,24,4,8,0,0,0,0,0,0)	70	220200222013310000102	
2778	7	12	70000	2	96(38,27,4,7,0,0,0,0,0,0)	70	220200222013310000203	
2779	7	12	70000	2	48(36,24,4,8,0,0,0,0,0,0)	70	220200222013310000201	
2780	7	12	70000	4	96(32,16,10,4,2,0,0,0,0,0)	68	220310310011122001000	
2781	7	12	70000	4	384(34,20,8,4,2,0,0,0,0,0)	68	220310310011122002000	
2782	7	12	70000	4	384(35,22,7,4,2,0,0,0,0,0)	68	220310310011122003000	
2783	7	12	70000	4	192(33,17,11,3,2,0,0,0,0,0)	70	220220310011132001000	
2784	7	12	70000	4	768(35,21,9,3,2,0,0,0,0,0)	70	220220310011132002000	
2785	7	12	70000	4	768(36,23,8,3,2,0,0,0,0,0)	70	220220310011132003000	
2786	7	12	70000	4	384(34,20,8,4,2,0,0,0,0,0)	68	230310220011221001000	
2787	7	12	70000	4	1152(36,24,6,4,2,0,0,0,0,0)	68	230310220011221002000	
2788	7	12	70000	4	768(37,26,5,4,2,0,0,0,0,0)	68	230310220011221003000	
2789	7	12	70000	4	384(34,19,10,3,2,0,0,0,0,0)	70	120210230012331001000	
2790	7	12	70000	4	1152(36,23,8,3,2,0,0,0,0,0)	70	120210230012331002000	
2791	7	12	70000	4	768(37,25,7,3,2,0,0,0,0,0)	70	120210230012331003000	
2792	7	12	70000	4	384(34,19,10,3,2,0,0,0,0,0)	70	230310310011222001000	
2793	7	12	70000	4	1152(36,23,8,3,2,0,0,0,0,0)	70	230310310011222002000	
2794	7	12	70000	4	768(37,25,7,3,2,0,0,0,0,0)	70	230310310011222003000	
2795	7	12	70000	4	384(35,21,9,3,2,0,0,0,0,0)	70	230220220011231001000	
2796	7	12	70000	4	1152(37,25,7,3,2,0,0,0,0,0)	70	230220220011231002000	
2797	7	12	70000	4	960(38,27,6,3,2,0,0,0,0,0)	70	230220220011231003000	
2798	7	12	70000	4	192(33,17,11,3,2,0,0,0,0,0)	70	120210320012132001000	
2799	7	12	70000	4	768(35,21,9,3,2,0,0,0,0,0)	70	120210320012132002000	
2800	7	12	70000	4	768(36,23,8,3,2,0,0,0,0,0)	70	120210320012132003000	
2801	7	12	70000	4	96(32,16,10,4,2,0,0,0,0,0)	68	210310310011222001000	
2802	7	12	70000	4	384(34,20,8,4,2,0,0,0,0,0)	68	210310310011222002000	
2803	7	12	70000	4	384(35,22,7,4,2,0,0,0,0,0)	68	210310310011222003000	
2804	7	12	70000	4	960(37,26,5,4,2,0,0,0,0,0)	68	220310220011321003000	
2805	7	12	70000	4	384(34,20,8,4,2,0,0,0,0,0)	68	220310220011321001000	
2806	7	12	70000	4	1152(36,24,6,4,2,0,0,0,0,0)	68	220310220011321002000	
2807	7	12	70000	4	960(37,25,7,3,2,0,0,0,0,0)	70	130210230012231003000	
2808	7	12	70000	4	384(34,19,10,3,2,0,0,0,0,0)	70	130210230012231001000	
2809	7	12	70000	4	1152(36,23,8,3,2,0,0,0,0,0)	70	130210230012231002000	
2810	7	12	70000	4	960(37,25,7,3,2,0,0,0,0,0)	70	220310310011322003000	
2811	7	12	70000	4	384(34,19,10,3,2,0,0,0,0,0)	70	220310310011322001000	
2812	7	12	70000	4	1152(36,23,8,3,2,0,0,0,0,0)	70	220310310011322002000	
2813	7	12	70000	4	384(35,21,9,3,2,0,0,0,0,0)	70	220220220011331001000	
2814	7	12	70000	4	1152(37,25,7,3,2,0,0,0,0,0)	70	220220220011331002000	
2815	7	12	70000	4	768(38,27,6,3,2,0,0,0,0,0)	70	220220220011331003000	
2816	7	12	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	120300121023201000302	
2817	7	12	70000	4	192(36,23,8,3,2,0,0,0,0,0)	70	230300112022101000203	
2818	7	12	70000	4	192(36,24,6,4,2,0,0,0,0,0)	68	220300111022201000302	
2819	7	12	70000	4	48(34,20,8,4,2,0,0,0,0,0)	68	220200111022201000202	
2820	7	12	70000	4	96(36,24,6,4,2,0,0,0,0,0)	68	220300111022201000203	
2821	7	12	70000	1	24(30,14,8,6,2,0,0,0,0,0)	66	120210120012110001002	
2822	7	12	70000	1	48(32,17,8,5,2,0,0,0,0,0)	66	120210120012110002003	
2823	7	12	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	120210120023220001003	
2824	7	12	70000	1	48(35,21,8,5,1,0,0,0,0,0)	70	120210120023220002002	
2825	7	12	70000	1	48(32,17,8,5,2,0,0,0,0,0)	66	120210230012110001002	
2826	7	12	70000	1	96(34,20,8,4,2,0,0,0,0,0)	68	120210230012110002003	
2827	7	12	70000	1	24(30,14,8,6,2,0,0,0,0,0)	66	120210210012110001002	
2828	7	12	70000	1	48(32,17,8,5,2,0,0,0,0,0)	66	120210210012110002003	
2829	7	12	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	120210210023220001003	
2830	7	12	70000	1	144(35,21,8,5,1,0,0,0,0,0)	70	120210210023220002002	
2831	7	12	70000	1	48(32,17,8,5,2,0,0,0,0,0)	66	120210320012110001002	
2832	7	12	70000	1	96(34,20,8,4,2,0,0,0,0,0)	68	120210320012110002003	
2833	7	12	70000	1	48(33,19,6,7,1,0,0,0,0,0)	68	120320120012120001002	
2834	7	12	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	120320120012120002003	
2835	7	12	70000	1	48(35,22,6,6,1,0,0,0,0,0)	68	120320120012120003002	
2836	7	12	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	120320230012120001002	
2837	7	12	70					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2842	7	12	70000	1	96(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	120320320012120001002	
2843	7	12	70000	1	192(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	120320320012120002003	
2844	7	12	70000	1	96(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	120320320012120003002	
2845	7	12	70000	1	48(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	120210230012130002001	
2846	7	12	70000	1	96(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	120210230012130003002	
2847	7	12	70000	1	48(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	120210230012130001002	
2848	7	12	70000	1	96(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	120210230012130002003	
2849	7	12	70000	1	48(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	120210210023220003001	
2850	7	12	70000	1	48(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	120210320012130002001	
2851	7	12	70000	1	96(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	120210320012130003002	
2852	7	12	70000	1	48(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	120210320012130001002	
2853	7	12	70000	1	96(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	120210320012130002003	
2854	7	12	70000	1	48(32,16,10, 4, 2, 0, 0, 0, 0, 0)	68	130210120012210001003	
2855	7	12	70000	1	48(33,18, 9, 4, 2, 0, 0, 0, 0, 0)	68	130210120012210002002	
2856	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210120023120003002	
2857	7	12	70000	1	96(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	130210120023120001002	
2858	7	12	70000	1	48(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	130210120023120002001	
2859	7	12	70000	1	144(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210120023120002003	
2860	7	12	70000	1	96(34,19,10, 3, 2, 0, 0, 0, 0, 0)	70	130210230012210001003	
2861	7	12	70000	1	96(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	130210230012210002002	
2862	7	12	70000	1	192(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210230023120001002	
2863	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210230023120002001	
2864	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130210230012230001003	
2865	7	12	70000	1	192(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	130210230012230002002	
2866	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130210230012230003001	
2867	7	12	70000	1	48(32,16,10, 4, 2, 0, 0, 0, 0, 0)	68	130210210012210001003	
2868	7	12	70000	1	48(33,18, 9, 4, 2, 0, 0, 0, 0, 0)	68	130210210012210002002	
2869	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210210023120003002	
2870	7	12	70000	1	96(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	130210210023120001002	
2871	7	12	70000	1	48(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	130210210023120002001	
2872	7	12	70000	1	144(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210210023120002003	
2873	7	12	70000	1	96(34,19,10, 3, 2, 0, 0, 0, 0, 0)	70	130210320012210001003	
2874	7	12	70000	1	96(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	130210320012210002002	
2875	7	12	70000	1	192(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210320023120001002	
2876	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130210320023120002001	
2877	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130210320012230001003	
2878	7	12	70000	1	192(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	130210320012230002002	
2879	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130210320012230003001	
2880	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130320120012220001003	
2881	7	12	70000	1	144(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130320120012220002002	
2882	7	12	70000	1	96(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	130320120023110001002	
2883	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	130320210012220001003	
2884	7	12	70000	1	144(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130320210012220002002	
2885	7	12	70000	1	96(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	130320210023110001002	
2886	7	12	70000	1	48(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	130120230012220001003	
2887	7	12	70000	1	96(37,26, 4, 6, 1, 0, 0, 0, 0, 0)	68	130120230012220002002	
2888	7	12	70000	1	48(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	130120230012220003001	
2889	7	12	70000	1	48(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	130120320012220001003	
2890	7	12	70000	1	96(37,26, 4, 6, 1, 0, 0, 0, 0, 0)	68	130120320012220002002	
2891	7	12	70000	1	48(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	130120320012220003001	
2892	7	12	70000	1	48(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	130230120012210001003	
2893	7	12	70000	1	48(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	130230120012210002002	
2894	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130230230012210001003	
2895	7	12	70000	1	96(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	130230230012210002002	
2896	7	12	70000	1	48(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	130230210012210001003	
2897	7	12	70000	1	48(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	130230210012210002002	
2898	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	130230320012210001003	
2899	7	12	70000	1	96(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	130230320012210002002	
2900	7	12	70000	1	48(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	220310130013120001002	
2901	7	12	70000	1	96(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	220310220013120001002	
2902	7	12	70000	1	48(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	220310310013120001002	
2903	7	12	70000	1	48(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	220220130013110001002	
2904	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	220220130013110002003	
2905	7	12	70000	1	96(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	220220220013110001002	
2906	7	12	70000	1	192(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	220220220013110002003	
2907	7	12	70000	1	48(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	220220310013110001002	
2908	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	220220310013110002003	
2909	7	12	70000	1	96(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	230310130022110001002	
2910	7	12	70000	1	192(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	230310220022110001002	
2911	7	12	70000	1	96(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	230310310022110001002	
2912	7	12	70000	4	96(30,12,14, 0, 4, 0, 0, 0, 0, 0)	68	110210201012211002000	
2913	7	12	70000	4	192(31,14,13, 0, 4, 0, 0, 0, 0, 0)	68	110210201012211003000	
2914	7	12	70000	4	384(34,20, 8, 4, 2, 0, 0, 0, 0, 0)	68	320210301012112002000	
2915	7	12	70000	4	768(35,22, 7, 4, 2, 0, 0, 0, 0, 0)	68	320210301012112003000	
2916	7	12	70000	4	192(32,16,11, 2, 3, 0, 0, 0, 0, 0)	68	120210301012112002000	
2917	7	12	70000	4	384(33,18,10, 2, 3, 0, 0, 0, 0, 0)	68	120210301012112003000	
2918	7	12	70000	4	192(32,16,11, 2, 3, 0, 0, 0, 0, 0)	68	210110201013221002000	
2919	7	12	70000	4	384(33,18,10, 2, 3, 0, 0, 0, 0, 0)	68	210110201013221003000	
2920	7	12	70000	4	384(33,17,12, 1, 3, 0, 0, 0, 0, 0)	70	110210302012212002000	
2921	7	12	70000	4	576(34,19,11, 1, 3, 0, 0, 0, 0, 0)	70	110210302012212003000	
2922	7	12	70000	4	768(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	210110302013222002000	
2923	7	12	70000	4	1152(36,23, 8, 3, 2, 0, 0, 0, 0, 0)	70	210110302013222003000	
2924	7	12	70000	4	192(33,17,12, 1, 3, 0, 0, 0, 0, 0)	70	310120201012221002000	
2925	7	12	70000	4	384(34,19,11, 1, 3, 0, 0, 0, 0, 0)	70	310120201012221003000	
2926	7	12	70000	4	384(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	220220301013112002000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
2945	7	12	70000	4	768(32,16,11,	2, 3, 0, 0, 0, 0)	68	130210201012211002000
2946	7	12	70000	4	768(33,18,10,	2, 3, 0, 0, 0, 0)	68	130210201012211003000
2947	7	12	70000	4	192(30,12,13,	2, 3, 0, 0, 0, 0)	68	130210201012211001000
2948	7	12	70000	4	768(35,21, 9,	3, 2, 0, 0, 0, 0)	70	310210302012212002000
2949	7	12	70000	4	1152(36,23, 8,	3, 2, 0, 0, 0, 0)	70	310210302012212003000
2950	7	12	70000	4	960(33,17,12,	1, 3, 0, 0, 0, 0)	70	120210202012311002000
2951	7	12	70000	4	960(34,19,11,	1, 3, 0, 0, 0, 0)	70	120210202012311003000
2952	7	12	70000	4	192(31,13,14,	1, 3, 0, 0, 0, 0)	70	120210202012311001000
2953	7	12	70000	4	384(34,20, 8,	4, 2, 0, 0, 0, 0)	68	220110301013122002000
2954	7	12	70000	4	768(35,22, 7,	4, 2, 0, 0, 0, 0)	68	220110301013122003000
2955	7	12	70000	4	1728(36,23, 8,	3, 2, 0, 0, 0, 0)	70	320210202012311003000
2956	7	12	70000	4	384(33,17,11,	3, 2, 0, 0, 0, 0)	70	320210202012311001000
2957	7	12	70000	4	1728(35,21, 9,	3, 2, 0, 0, 0, 0)	70	320210202012311002000
2958	7	12	70000	4	1344(35,22, 7,	4, 2, 0, 0, 0, 0)	68	230110201013221003000
2959	7	12	70000	4	384(32,16,10,	4, 2, 0, 0, 0, 0)	68	230110201013221001000
2960	7	12	70000	4	1344(34,20, 8,	4, 2, 0, 0, 0, 0)	68	230110201013221002000
2961	7	12	70000	4	384(33,17,11,	3, 2, 0, 0, 0, 0)	70	330120201012221001000
2962	7	12	70000	4	1344(35,21, 9,	3, 2, 0, 0, 0, 0)	70	330120201012221002000
2963	7	12	70000	4	1152(36,23, 8,	3, 2, 0, 0, 0, 0)	70	330120201012221003000
2964	7	12	70000	4	288(36,23, 8,	3, 2, 0, 0, 0, 0)	70	220220301011312003000
2965	7	12	70000	4	192(35,21, 9,	3, 2, 0, 0, 0, 0)	70	220220301011312002000
2966	7	12	70000	4	192(33,17,11,	3, 2, 0, 0, 0, 0)	70	220310202013121001000
2967	7	12	70000	4	768(35,21, 9,	3, 2, 0, 0, 0, 0)	70	220310202013121002000
2968	7	12	70000	4	768(36,23, 8,	3, 2, 0, 0, 0, 0)	70	220310202013121003000
2969	7	12	70000	2	96(32,16,10,	4, 2, 0, 0, 0, 0)	68	110210233012201001000
2970	7	12	70000	2	384(34,20, 8,	4, 2, 0, 0, 0, 0)	68	110210233012201002000
2971	7	12	70000	2	384(35,22, 7,	4, 2, 0, 0, 0, 0)	68	110210233012201003000
2972	7	12	70000	2	48(34,21, 6,	5, 2, 0, 0, 0, 0)	66	110320122012202001000
2973	7	12	70000	2	192(36,25, 4,	5, 2, 0, 0, 0, 0)	66	110320122012202002000
2974	7	12	70000	2	192(37,27, 3,	5, 2, 0, 0, 0, 0)	66	110320122012202003000
2975	7	12	70000	2	192(34,19,10,	3, 2, 0, 0, 0, 0)	70	110320233012201001000
2976	7	12	70000	2	768(36,23, 8,	3, 2, 0, 0, 0, 0)	70	110320233012201002000
2977	7	12	70000	2	768(37,25, 7,	3, 2, 0, 0, 0, 0)	70	110320233012201003000
2978	7	12	70000	2	96(32,17, 8,	5, 2, 0, 0, 0, 0)	66	120120232012101001000
2979	7	12	70000	2	384(34,21, 6,	5, 2, 0, 0, 0, 0)	66	120120232012101002000
2980	7	12	70000	2	384(35,23, 5,	5, 2, 0, 0, 0, 0)	66	120120232012101003000
2981	7	12	70000	2	480(36,23, 8,	3, 2, 0, 0, 0, 0)	70	120210123023201003000
2982	7	12	70000	2	96(33,17,11,	3, 2, 0, 0, 0, 0)	70	120210123023201001000
2983	7	12	70000	2	480(35,21, 9,	3, 2, 0, 0, 0, 0)	70	120210123023201002000
2984	7	12	70000	2	96(34,20, 8,	4, 2, 0, 0, 0, 0)	68	120230123012102001000
2985	7	12	70000	2	384(36,24, 6,	4, 2, 0, 0, 0, 0)	68	120230123012102002000
2986	7	12	70000	2	384(37,26, 5,	4, 2, 0, 0, 0, 0)	68	120230123012102003000
2987	7	12	70000	2	192(34,20, 9,	4, 2, 0, 0, 0, 0)	68	120230232012101001000
2988	7	12	70000	2	768(36,24, 6,	4, 2, 0, 0, 0, 0)	68	120230232012101002000
2989	7	12	70000	2	768(37,26, 5,	4, 2, 0, 0, 0, 0)	68	120230232012101003000
2990	7	12	70000	2	96(32,17, 8,	5, 2, 0, 0, 0, 0)	66	120210232012101001000
2991	7	12	70000	2	384(34,21, 6,	5, 2, 0, 0, 0, 0)	66	120210232012101002000
2992	7	12	70000	2	384(35,23, 5,	5, 2, 0, 0, 0, 0)	66	120210232012101003000
2993	7	12	70000	2	96(34,20, 8,	4, 2, 0, 0, 0, 0)	68	120320123012102001000
2994	7	12	70000	2	384(36,24, 6,	4, 2, 0, 0, 0, 0)	68	120320123012102002000
2995	7	12	70000	2	384(37,26, 5,	4, 2, 0, 0, 0, 0)	68	120320123012102003000
2996	7	12	70000	2	192(34,20, 8,	4, 2, 0, 0, 0, 0)	68	120320232012101001000
2997	7	12	70000	2	768(36,24, 6,	4, 2, 0, 0, 0, 0)	68	120320232012101002000
2998	7	12	70000	2	768(37,26, 5,	4, 2, 0, 0, 0, 0)	68	120320232012101003000
2999	7	12	70000	2	96(32,16,10,	4, 2, 0, 0, 0, 0)	68	130120122023101001000
3000	7	12	70000	2	384(34,20, 8,	4, 2, 0, 0, 0, 0)	68	130120122023101002000
3001	7	12	70000	2	384(35,22, 7,	4, 2, 0, 0, 0, 0)	68	130120122023101003000
3002	7	12	70000	2	192(34,19,10,	3, 2, 0, 0, 0, 0)	70	130230122023101001000
3003	7	12	70000	2	768(36,23, 8,	3, 2, 0, 0, 0, 0)	70	130230122023101002000
3004	7	12	70000	2	768(37,25, 7,	3, 2, 0, 0, 0, 0)	70	130230122023101003000
3005	7	12	70000	2	240(38,27, 6,	3, 2, 0, 0, 0, 0)	70	130230122012202003000
3006	7	12	70000	2	48(35,21, 9,	3, 2, 0, 0, 0, 0)	70	130230122012202001000
3007	7	12	70000	2	240(37,25, 7,	3, 2, 0, 0, 0, 0)	70	130230122012202002000
3008	7	12	70000	2	96(32,16,10,	4, 2, 0, 0, 0, 0)	68	130210122023101001000
3009	7	12	70000	2	384(34,20, 8,	4, 2, 0, 0, 0, 0)	68	130210122023101002000
3010	7	12	70000	2	384(35,22, 7,	4, 2, 0, 0, 0, 0)	68	130210122023101003000
3011	7	12	70000	2	192(34,19,10,	3, 2, 0, 0, 0, 0)	70	130320122023101001000
3012	7	12	70000	2	768(36,23, 8,	3, 2, 0, 0, 0, 0)	70	130320122023101002000
3013	7	12	70000	2	768(37,25, 7,	3, 2, 0, 0, 0, 0)	70	130320122023101003000
3014	7	12	70000	2	240(38,27, 6,	3, 2, 0, 0, 0, 0)	70	130320122012202003000
3015	7	12	70000	2	48(35,21, 9,	3, 2, 0, 0, 0, 0)	70	130320122012202001000
3016	7	12	70000	2	240(37,25, 7,	3, 2, 0, 0, 0, 0)	70	130320122012202002000
3017	7	12	70000	2	96(33,17,11,	3, 2, 0, 0, 0, 0)	70	220130222013101001000
3018	7	12	70000	2	384(35,21, 9,	3, 2, 0, 0, 0, 0)	70	220130222013101002000
3019	7	12	70000	2	384(36,23, 8,	3, 2, 0, 0, 0, 0)	70	220130222013101003000
3020	7	12	70000	2	192(34,19,10,	3, 2, 0, 0, 0, 0)	70	220220222013101001000
3021	7	12	70000	2	768(36,23, 8,	3, 2, 0, 0, 0, 0)	70	220220222013101002000
3022	7	12	70000	2	768(37,25, 7,	3, 2, 0, 0, 0, 0)	70	220220222013101003000
3023	7	12	70000	2	96(33,17,11,	3, 2, 0, 0, 0, 0)	70	220310222013101001000
3024	7	12	70000	2	384(35,21, 9,	3, 2, 0, 0, 0, 0)	70	220310222013101002000
3025	7	12	70000	2	384(36,23, 8,	3, 2, 0, 0, 0, 0)	70	220310222013101003000
3026	7	12	70000	2	96(34,19, 9,	5, 1, 0, 0, 0, 0)	70	11220030201030201000332
3027	7	12	70000	2	96(35,21, 8,	5, 1, 0, 0, 0, 0)	70	11220030201030201000332
3028	7	12	70000	2	96(35,21, 8,	5, 1, 0, 0, 0, 0)	70	112300201030201000232
3029	7	12	70000	2	192(36,23, 7,	5, 1, 0, 0, 0, 0)	70	112300302020101000332
3030	7	12	70000	2	96(34,19, 9,	5, 1, 0, 0, 0, 0)	70	211200302020101000232
3031	7	12	70000	2	96(35,21, 8,	5, 1, 0, 0, 0, 0)	70	21120030201030201000332
3032	7	12	70000	2	96(35,21, 8,	5, 1, 0, 0, 0, 0)	70	211300201030201000232
3033	7	12	70000	2	192(36,23, 7,	5, 1, 0, 0, 0, 0)	70	211300302020101000332
3034	7	12	70000	1	24(30,14, 8,	6, 2, 0, 0, 0, 0)	66	110210122012210001000
3035	7	12	70000	1	96(32,18, 6,	6, 2, 0, 0, 0, 0)	66	110210122012210002000
3036	7	12	70000	1	96(33,20, 5,	6, 2, 0, 0, 0, 0)	66	110210122012210003000
3037	7	12	70000	1	48(33,18, 8,	6, 1, 0, 0, 0, 0)	68	110210122023320001000
3038	7	12	70000	1	192(35,22, 6,	6, 1, 0, 0, 0, 0)	68	110210122023320002000
3039	7	12	70000	1	192(36,24, 5,	6, 1, 0, 0, 0, 0)	68	110210122023320003000
3040	7	12	70000	1	48(32,16,10,	4, 2, 0, 0, 0, 0)	68	110210233012210001000
3041	7	12	70000	1	192(34,20, 8,	4, 2, 0, 0, 0, 0)	68	110210233012210002000
3042	7	12	70000	1	192(35,22, 7,	4, 2, 0, 0, 0, 0)	68	110210233012210003000
3043	7	12	70000	1	48(34,20, 7,	6, 1, 0, 0, 0, 0)	68	110210233012230001000
3044	7	12	70000	1	192(36,24, 5,	6, 1, 0, 0, 0, 0)	68	110210233012230002000
3045	7	12	70000	1	192(37,26, 4,	6, 1, 0, 0, 0, 0)	68	110210233012230003000
3046	7	12	70000	1	48(33,19, 6,	7, 1, 0, 0, 0, 0)	68	110320122012220001000
3047	7	12	70000	1	192(35,23, 4,	7, 1, 0, 0, 0, 0)	68	110320122012220002000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TFRM	GRAPH	MATR (X)
3048	7	12	70000	1	192(36,25,3,7,1,0,0,0,0)	68	1103201220122200003000		
3049	7	12	70000	1	48(33,17,10,5,1,0,0,0,0)	70	110320122023310001000		
3050	7	12	70000	1	192(35,21,8,5,1,0,0,0,0)	70	110320122023310002000		
3051	7	12	70000	1	192(36,23,7,5,1,0,0,0,0)	70	110320122023310003000		
3052	7	12	70000	1	96(35,21,8,5,1,0,0,0,0)	70	110320233012220001000		
3053	7	12	70000	1	384(37,25,6,5,1,0,0,0,0)	70	110320233012220002000		
3054	7	12	70000	1	384(38,27,5,5,1,0,0,0,0)	70	110320233012220003000		
3055	7	12	70000	1	192(35,21,8,5,1,0,0,0,0)	70	120320123012320001000		
3056	7	12	70000	1	624(37,25,6,5,1,0,0,0,0)	70	120320123012320002000		
3057	7	12	70000	1	528(38,27,5,5,1,0,0,0,0)	70	120320123012320003000		
3058	7	12	70000	1	48(35,22,6,6,1,0,0,0,0)	68	120120232012320001000		
3059	7	12	70000	1	240(37,26,4,6,1,0,0,0,0)	68	120120232012320002000		
3060	7	12	70000	1	240(38,28,3,6,1,0,0,0,0)	68	120120232012320003000		
3061	7	12	70000	1	336(34,20,8,4,2,0,0,0,0)	68	120210123012310002000		
3062	7	12	70000	1	288(35,22,7,4,2,0,0,0,0)	68	120210123012310003000		
3063	7	12	70000	1	96(32,16,10,4,2,0,0,0,0)	68	120210123012310004000		
3064	7	12	70000	1	48(34,19,9,5,1,0,0,0,0)	70	120210123023220001000		
3065	7	12	70000	1	240(36,23,7,5,1,0,0,0,0)	70	120210123023220002000		
3066	7	12	70000	1	240(37,25,6,5,1,0,0,0,0)	70	120210123023220003000		
3067	7	12	70000	1	240(36,23,8,3,2,0,0,0,0)	70	120210232012310003000		
3068	7	12	70000	1	48(33,17,11,3,2,0,0,0,0)	70	120210232012310004000		
3069	7	12	70000	1	240(35,21,9,3,2,0,0,0,0)	70	120210232012310005000		
3070	7	12	70000	1	336(36,24,5,6,1,0,0,0,0)	68	120230123012310002000		
3071	7	12	70000	1	288(37,26,4,6,1,0,0,0,0)	68	120230123012310003000		
3072	7	12	70000	1	96(34,20,7,6,1,0,0,0,0)	68	120230123012310004000		
3073	7	12	70000	1	240(38,27,5,5,1,0,0,0,0)	70	120230232012310003000		
3074	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	120230232012310004000		
3075	7	12	70000	1	240(37,25,6,5,1,0,0,0,0)	70	120230232012310005000		
3076	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	120210232012330001000		
3077	7	12	70000	1	240(37,25,6,5,1,0,0,0,0)	70	120210232012330002000		
3078	7	12	70000	1	240(38,27,5,5,1,0,0,0,0)	70	120210232012330003000		
3079	7	12	70000	1	48(33,17,10,5,1,0,0,0,0)	70	210310132013220001000		
3080	7	12	70000	1	192(35,21,8,5,1,0,0,0,0)	70	210310132013220002000		
3081	7	12	70000	1	192(36,23,7,5,1,0,0,0,0)	70	210310132013220003000		
3082	7	12	70000	1	48(33,17,10,5,1,0,0,0,0)	70	210310132022310001000		
3083	7	12	70000	1	192(35,21,8,5,1,0,0,0,0)	70	210310132022310002000		
3084	7	12	70000	1	192(36,23,7,5,1,0,0,0,0)	70	210310132022310003000		
3085	7	12	70000	1	48(33,18,8,6,1,0,0,0,0)	68	210220132013210001000		
3086	7	12	70000	1	192(35,22,6,6,1,0,0,0,0)	68	210220132013210002000		
3087	7	12	70000	1	192(36,24,5,6,1,0,0,0,0)	68	210220132013210003000		
3088	7	12	70000	1	48(34,19,9,5,1,0,0,0,0)	70	210220223013210001000		
3089	7	12	70000	1	192(36,23,7,5,1,0,0,0,0)	70	210220223013210002000		
3090	7	12	70000	1	192(37,25,6,5,1,0,0,0,0)	70	210220223013210003000		
3091	7	12	70000	1	96(38,27,4,7,0,0,0,0,0)	70	120200232012330002020		
3092	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	120200232012330003010		
3093	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	120200232012330004030		
3094	7	12	70000	1	96(38,27,4,7,0,0,0,0,0)	70	120300232012320002020		
3095	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	120300232012320001030		
3096	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	120300232012320003010		
3097	7	12	70000	1	48(36,23,6,7,0,0,0,0,0)	70	220100222013320001030		
3098	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	220100222013320002020		
3099	7	12	70000	1	48(36,23,6,7,0,0,0,0,0)	70	220200222013310001030		
3100	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	220200222013310002020		
3101	7	12	70000	2	24(32,18,6,6,2,0,0,0,0)	66	110210122012210000200		
3102	7	12	70000	2	48(33,20,5,6,2,0,0,0,0)	66	110210122012210000300		
3103	7	12	70000	2	192(35,22,6,6,1,0,0,0,0)	68	210220132013210000200		
3104	7	12	70000	2	288(36,24,5,6,1,0,0,0,0)	68	210220132013210000300		
3105	7	12	70000	2	96(34,20,8,4,2,0,0,0,0)	68	110210233012210000200		
3106	7	12	70000	2	192(35,22,7,4,2,0,0,0,0)	68	110210233012210000300		
3107	7	12	70000	2	384(36,24,5,6,1,0,0,0,0)	68	120230123012310000200		
3108	7	12	70000	2	384(37,26,4,6,1,0,0,0,0)	68	120230123012310000300		
3109	7	12	70000	2	96(34,20,7,6,1,0,0,0,0)	68	120230123012310001000		
3110	7	12	70000	2	240(35,23,4,7,1,0,0,0,0)	68	110320122012220000200		
3111	7	12	70000	2	240(36,25,3,7,1,0,0,0,0)	68	110320122012220000300		
3112	7	12	70000	2	48(33,19,6,7,1,0,0,0,0)	68	110320122012220000400		
3113	7	12	70000	2	192(35,21,8,5,1,0,0,0,0)	70	110320122023310000200		
3114	7	12	70000	2	288(36,23,7,5,1,0,0,0,0)	70	110320122023310000300		
3115	7	12	70000	2	864(37,25,6,5,1,0,0,0,0)	70	110320233012220000200		
3116	7	12	70000	2	864(38,27,5,5,1,0,0,0,0)	70	110320233012220000300		
3117	7	12	70000	2	192(35,21,8,5,1,0,0,0,0)	70	110320233012220000400		
3118	7	12	70000	2	48(35,22,6,6,1,0,0,0,0)	68	120120232012320000100		
3119	7	12	70000	2	192(37,26,4,6,1,0,0,0,0)	68	120120232012320000200		
3120	7	12	70000	2	192(38,28,3,6,1,0,0,0,0)	68	120120232012320000300		
3121	7	12	70000	2	288(37,25,6,5,1,0,0,0,0)	70	210220223013210000300		
3122	7	12	70000	2	192(36,23,7,5,1,0,0,0,0)	70	210220223013210000400		
3123	7	12	70000	2	96(36,23,8,3,2,0,0,0,0)	70	120210232012310000300		
3124	7	12	70000	2	48(35,21,9,3,2,0,0,0,0)	70	120210232012310000400		
3125	7	12	70000	2	96(35,21,8,5,1,0,0,0,0)	70	120230232012310000500		
3126	7	12	70000	2	384(37,25,6,5,1,0,0,0,0)	70	120230232012310000600		
3127	7	12	70000	2	384(38,27,5,5,1,0,0,0,0)	70	120230232012310000700		
3128	7	12	70000	2	96(36,23,7,5,1,0,0,0,0)	70	210310132022310000300		
3129	7	12	70000	2	48(35,21,8,5,1,0,0,0,0)	70	210310132022310000400		
3130	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	110320233012200000230		
3131	7	12	70000	1	48(37,25,5,7,0,0,0,0,0)	70	110320233012200000320		
3132	7	12	70000	2	192(37,25,5,7,0,0,0,0,0)	70	220130222010320000200		
3133	7	12	70000	2	96(36,23,6,7,0,0,0,0,0)	70	120120232020230003010		
3134	7	12	70000	2	96(36,23,6,7,0,0,0,0,0)	70	220130222010320003010		
3135	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	110210302012230000230		
3136	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	110210302012230000320		
3137	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	210310203011220000230		
3138	7	12	70000	1	48(35,21,8,5,1,0,0,0,0)	70	210310203011220000320		
3139	7	12	70000	1	48(36,23,7,5,1,0,0,0,0)	70	210310302011220000330		
3140	7	12	70000	2	96(37,25,6,5,1,0,0,0,0)	70	130120230012220000300		
3141	7	12	70000	2	96(37,25,6,5,1,0,0,0,0)	70	120120320012320003020		
3142	7	12	70000	2	48(38,27,5,5,1,0,0,0,0)	70	130120320012320003030		
3143	7	12	70000	4	384(34,19,9,5,1,0,0,0,0)	70	230220201011010003220		
3144	7	12	70000	4	384(35,21,8,5,1,0,0,0,0)	70	220220301011010003320		
3145	7	12	70000	2	384(35,21,8,5,1,0,0,0,0)	70	120320232020100001030		
3146	7	12	70000	2	672(36,23,7,5,1,0,0,0,0)	70	120320232020100002020		
3147	7	12	70000	2	384(35,21,8,5,1,0,0,0,0)	70	120320232020100003010		
3148	7	12	70000	2	96(32,18,5,8,1,0,0,0,0)	68	120230121012010002010		
3149	7	12	70000	2	192(34,21,5,7,1,0,0,0,0)	68	120230121012010003020		
3150	7	12	70000	2					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
3151	7	12	70000	2	192(34,21,5,7,1,0,0,0,0,0)	68	120230121012010002030	
3152	7	12	70000	2	48(30,14,8,6,2,0,0,0,0,0)	66	120120121021010002010	
3153	7	12	70000	2	96(32,17,8,5,2,0,0,0,0,0)	66	120120121021010003020	
3154	7	12	70000	2	48(30,14,8,6,2,0,0,0,0,0)	66	120120121021010001020	
3155	7	12	70000	2	96(32,17,8,5,2,0,0,0,0,0)	66	120120121021010002030	
3156	7	12	70000	2	96(33,19,6,7,1,0,0,0,0,0)	68	120320121012020002010	
3157	7	12	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	120320121012020003020	
3158	7	12	70000	2	96(33,19,6,7,1,0,0,0,0,0)	68	120320121012020001020	
3159	7	12	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	120320121012020002030	
3160	7	12	70000	2	384(36,23,7,5,1,0,0,0,0,0)	70	120230232012010002020	
3161	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	120230232012010003010	
3162	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	120230232012010001030	
3163	7	12	70000	2	192(34,19,10,3,2,0,0,0,0,0)	70	120120232021010002020	
3164	7	12	70000	2	96(33,17,11,3,2,0,0,0,0,0)	70	120120232021010003010	
3165	7	12	70000	2	96(33,17,11,3,2,0,0,0,0,0)	70	120120232021010001030	
3166	7	12	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	120120232021030002020	
3167	7	12	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	120120232021030003010	
3168	7	12	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	120120232021030001030	
3169	7	12	70000	2	192(36,24,5,6,1,0,0,0,0,0)	68	120210232021020002020	
3170	7	12	70000	2	96(35,22,6,6,1,0,0,0,0,0)	68	120210232021020001030	
3171	7	12	70000	2	96(35,22,6,6,1,0,0,0,0,0)	68	120210232021020002010	
3172	7	12	70000	2	96(33,19,6,7,1,0,0,0,0,0)	68	120230121021020002010	
3173	7	12	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	120230121021020003020	
3174	7	12	70000	2	96(33,19,6,7,1,0,0,0,0,0)	68	120230121021020001020	
3175	7	12	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	120230121021020002030	
3176	7	12	70000	2	96(33,18,8,6,1,0,0,0,0,0)	68	120230121032010002010	
3177	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	120230121032010003020	
3178	7	12	70000	2	96(33,18,8,6,1,0,0,0,0,0)	68	120230121032010001020	
3179	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	120230121032010002030	
3180	7	12	70000	2	96(32,18,5,8,1,0,0,0,0,0)	68	120320121021010002010	
3181	7	12	70000	2	192(34,21,5,7,1,0,0,0,0,0)	68	120320121021010003020	
3182	7	12	70000	2	96(32,18,5,8,1,0,0,0,0,0)	68	120320121021010001020	
3183	7	12	70000	2	192(34,21,5,7,1,0,0,0,0,0)	68	120320121021010002030	
3184	7	12	70000	2	384(35,22,6,6,1,0,0,0,0,0)	68	130230122012010002020	
3185	7	12	70000	2	192(34,20,7,6,1,0,0,0,0,0)	68	130230122012010001030	
3186	7	12	70000	2	192(34,20,7,6,1,0,0,0,0,0)	68	130230122012010003010	
3187	7	12	70000	2	192(33,18,9,4,2,0,0,0,0,0)	68	130120122021010002020	
3188	7	12	70000	2	96(32,16,10,4,2,0,0,0,0,0)	68	130120122021010001030	
3189	7	12	70000	2	96(32,16,10,4,2,0,0,0,0,0)	68	130120122021010003010	
3190	7	12	70000	2	384(36,23,7,5,1,0,0,0,0,0)	70	130320122012020002020	
3191	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	130320122012020001030	
3192	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	130320122012020003010	
3193	7	12	70000	2	96(34,21,5,7,1,0,0,0,0,0)	68	130120231012020002010	
3194	7	12	70000	2	144(36,24,5,6,1,0,0,0,0,0)	68	130120231012020003020	
3195	7	12	70000	2	96(34,21,5,7,1,0,0,0,0,0)	68	130120231012020001020	
3196	7	12	70000	2	144(36,24,5,6,1,0,0,0,0,0)	68	130120231012020002030	
3197	7	12	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	130230231012010002010	
3198	7	12	70000	2	480(36,23,7,5,1,0,0,0,0,0)	70	130230231012010003020	
3199	7	12	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	130230231012010001020	
3200	7	12	70000	2	480(36,23,7,5,1,0,0,0,0,0)	70	130230231012010002030	
3201	7	12	70000	2	192(32,16,10,4,2,0,0,0,0,0)	68	130120231021010002010	
3202	7	12	70000	2	288(34,19,10,3,2,0,0,0,0,0)	70	130120231021010003020	
3203	7	12	70000	2	192(32,16,10,4,2,0,0,0,0,0)	68	130120231021010001020	
3204	7	12	70000	2	288(34,19,10,3,2,0,0,0,0,0)	70	130120231021010002030	
3205	7	12	70000	2	192(34,20,7,6,1,0,0,0,0,0)	68	130120231021030002010	
3206	7	12	70000	2	288(36,23,7,5,1,0,0,0,0,0)	70	130120231021030003020	
3207	7	12	70000	2	192(34,20,7,6,1,0,0,0,0,0)	68	130120231021030001020	
3208	7	12	70000	2	288(36,23,7,5,1,0,0,0,0,0)	70	130120231021030002030	
3209	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	130320231012020002010	
3210	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	130320231012020001020	
3211	7	12	70000	2	384(35,23,7,5,1,0,0,0,0,0)	70	130230122021020002020	
3212	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	130230122021020001030	
3213	7	12	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	130230122021020003010	
3214	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	130230231021020002010	
3215	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	130230231021020003020	
3216	7	12	70000	2	384(35,22,6,6,1,0,0,0,0,0)	68	130320122021010002020	
3217	7	12	70000	2	192(34,20,7,6,1,0,0,0,0,0)	68	130320122021010001030	
3218	7	12	70000	2	192(34,20,7,6,1,0,0,0,0,0)	68	130320122021010003010	
3219	7	12	70000	2	96(34,21,5,7,1,0,0,0,0,0)	68	130210231021020002010	
3220	7	12	70000	2	144(36,24,5,6,1,0,0,0,0,0)	68	130210231021020003020	
3221	7	12	70000	2	96(34,21,5,7,1,0,0,0,0,0)	68	130210231021020001020	
3222	7	12	70000	2	144(36,24,5,6,1,0,0,0,0,0)	68	130210231021020002030	
3223	7	12	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	130320231021010002010	
3224	7	12	70000	2	480(36,23,7,5,1,0,0,0,0,0)	70	130320231021010003020	
3225	7	12	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	130320231021010001020	
3226	7	12	70000	2	576(36,23,7,5,1,0,0,0,0,0)	70	130320231021010002030	
3227	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	220130131022010003020	
3228	7	12	70000	2	192(33,18,8,6,1,0,0,0,0,0)	68	220130131022010001020	
3229	7	12	70000	2	192(33,18,8,6,1,0,0,0,0,0)	68	220130131022010002010	
3230	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	220130131022010002030	
3231	7	12	70000	2	96(33,17,10,5,1,0,0,0,0,0)	70	220130131031020001020	
3232	7	12	70000	2	96(33,17,10,5,1,0,0,0,0,0)	70	220130131031020002010	
3233	7	12	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	220220131022020001020	
3234	7	12	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	220220131022020002010	
3235	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	220220131031010003020	
3236	7	12	70000	2	192(33,18,8,6,1,0,0,0,0,0)	68	220220131031010001020	
3237	7	12	70000	2	192(33,18,8,6,1,0,0,0,0,0)	68	220220131031010002010	
3238	7	12	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	220220131031010002030	
3239	7	12	70000	2	384(34,19,9,5,1,0,0,0,0,0)	70	230130221022010001020	
3240	7	12	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	230130221022010002010	
3241	7	12	70000	2	384(34,19,9,5,1,0,0,0,0,0)	70	230220221031010001020	
3242	7	12	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	230220221031010002010	
3243	7	12	70000	24	576(30,11,15,2,1,1,0,0,0,0)	70	310210210212011001000	
3244	7	12	70000	24	2304(32,15,13,2,1,1,0,0,0,0)	70	310210210212011002000	
3245	7	12	70000	24	2304(33,17,12,2,1,1,0,0,0,0)	70	310210210212011003000	
3246	7	12	70000	24	4608(32,15,13,2,1,1,0,0,0,0)	70	320210210212011001000	
3247	7	12	70000	24	14976(34,19,11,2,1,1,0,0,0,0)	70	320210210212011002000	
3248	7	12	70000	24	11520(35,21,10,2,1,1,0,0,0,0)</			

GRAPH	N	L	C	SYMMETRY NIMMER	COUNT	CODE	TERM	GRAPH MATRIX
3254	7	12	70000	24	1152(32,15,13,	2, 1, 1, 0, 0, 0)	70	320120120221011001000
3255	7	12	70000	24	6912(33,17,12,	2, 1, 1, 0, 0, 0)	70	330210210212011001000
3256	7	12	70000	24	18432(35,21,10,	2, 1, 1, 0, 0, 0)	70	330210210212011002000
3257	7	12	70000	24	13248(36,23, 9,	2, 1, 1, 0, 0, 0)	70	330210210212011003000
3258	7	12	70000	24	14976(36,23, 9,	2, 1, 1, 0, 0, 0)	70	130230210212011003000
3259	7	12	70000	24	6912(33,17,12,	2, 1, 1, 0, 0, 0)	70	130230210212011001000
3260	7	12	70000	24	19584(35,21,10,	2, 1, 1, 0, 0, 0)	70	130230210212011002000
3261	7	12	70000	24	5184(35,21,10,	2, 1, 1, 0, 0, 0)	70	130120120223011002000
3262	7	12	70000	24	4032(36,23, 9,	2, 1, 1, 0, 0, 0)	70	130120120223011003000
3263	7	12	70000	24	1728(33,17,12,	2, 1, 1, 0, 0, 0)	70	130120120223011001000
3264	7	12	70000	24	10368(35,21,10,	2, 1, 1, 0, 0, 0)	70	330120120221011002000
3265	7	12	70000	24	7488(36,23, 9,	2, 1, 1, 0, 0, 0)	70	330120120221011003000
3266	7	12	70000	24	3456(33,17,12,	2, 1, 1, 0, 0, 0)	70	330120120221011001000
3267	7	12	70000	24	576(30,11,15,	2, 1, 1, 0, 0, 0)	70	310210210212011001000
3268	7	12	70000	24	2304(32,15,13,	2, 1, 1, 0, 0, 0)	70	310210210212011002000
3269	7	12	70000	24	2304(33,17,12,	2, 1, 1, 0, 0, 0)	70	310210210212011003000
3270	7	12	70000	24	4608(32,15,13,	2, 1, 1, 0, 0, 0)	70	320210210212011001000
3271	7	12	70000	24	14976(34,19,11,	2, 1, 1, 0, 0, 0)	70	320210210212011002000
3272	7	12	70000	24	11520(35,21,10,	2, 1, 1, 0, 0, 0)	70	320210210212011003000
3273	7	12	70000	24	8064(34,19,11,	2, 1, 1, 0, 0, 0)	70	120230210212011002000
3274	7	12	70000	24	6912(35,21,10,	2, 1, 1, 0, 0, 0)	70	120230210212011003000
3275	7	12	70000	24	2304(32,15,13,	2, 1, 1, 0, 0, 0)	70	120230210212011001000
3276	7	12	70000	24	4032(34,19,11,	2, 1, 1, 0, 0, 0)	70	320120120221011002000
3277	7	12	70000	24	3456(35,21,10,	2, 1, 1, 0, 0, 0)	70	320120120221011003000
3278	7	12	70000	24	1152(32,15,13,	2, 1, 1, 0, 0, 0)	70	320120120221011001000
3279	7	12	70000	24	6912(33,17,12,	2, 1, 1, 0, 0, 0)	70	330210210212011001000
3280	7	12	70000	24	18432(35,21,10,	2, 1, 1, 0, 0, 0)	70	330210210212011002000
3281	7	12	70000	24	13248(36,23, 9,	2, 1, 1, 0, 0, 0)	70	330210210212011003000
3282	7	12	70000	24	14976(36,23, 9,	2, 1, 1, 0, 0, 0)	70	130230210212011003000
3283	7	12	70000	24	6912(33,17,12,	2, 1, 1, 0, 0, 0)	70	130230210212011001000
3284	7	12	70000	24	19584(35,21,10,	2, 1, 1, 0, 0, 0)	70	130230210212011002000
3285	7	12	70000	24	5184(35,21,10,	2, 1, 1, 0, 0, 0)	70	130120120223011002000
3286	7	12	70000	24	4032(36,23, 9,	2, 1, 1, 0, 0, 0)	70	130120120223011003000
3287	7	12	70000	24	1728(33,17,12,	2, 1, 1, 0, 0, 0)	70	130120120223011001000
3288	7	12	70000	24	10368(35,21,10,	2, 1, 1, 0, 0, 0)	70	330120120221011002000
3289	7	12	70000	24	7488(36,23, 9,	2, 1, 1, 0, 0, 0)	70	330120120221011003000
3290	7	12	70000	24	3456(33,17,12,	2, 1, 1, 0, 0, 0)	70	330120120221011001000
3291	7	12	70000	12	1152(32,18, 6,	2, 0, 0, 0, 0, 0)	66	220110202010101002021
3292	7	12	70000	12	2304(32,17, 8,	5, 2, 0, 0, 0, 0, 0)	66	220110101020201003021
3293	7	12	70000	12	1152(33,18, 9,	4, 2, 0, 0, 0, 0, 0)	68	210110201020102003022
3294	7	12	70000	12	2304(32,16,10,	4, 2, 0, 0, 0, 0, 0)	68	23011020101010201003021
3295	7	12	70000	12	2304(32,17, 8,	5, 2, 0, 0, 0, 0, 0)	66	230110102020101002021
3296	7	12	70000	12	2304(33,17,11,	3, 2, 0, 0, 0, 0, 0)	70	220110301010102003022
3297	7	12	70000	12	2304(32,16,10,	4, 2, 0, 0, 0, 0, 0)	68	210110201030201003021
3298	7	12	70000	12	1152(34,21, 6,	5, 2, 0, 0, 0, 0, 0)	66	320120202010101002021
3299	7	12	70000	12	2304(34,20, 8,	4, 2, 0, 0, 0, 0, 0)	68	320120101020201003021
3300	7	12	70000	12	1152(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	310120201020102003022
3301	7	12	70000	12	2304(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	330120201010201003021
3302	7	12	70000	12	2304(34,20, 8,	4, 2, 0, 0, 0, 0, 0)	68	330120102020101002021
3303	7	12	70000	12	2304(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	310120201030201003021
3304	7	12	70000	12	2304(33,17,11,	3, 2, 0, 0, 0, 0, 0)	70	2201103010020201003021
3305	7	12	70000	12	1152(33,18, 9,	4, 2, 0, 0, 0, 0, 0)	68	220110202030101002021
3306	7	12	70000	12	1152(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	320120202030101002021
3307	7	12	70000	12	288(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	220130202030101002021
3308	7	12	70000	12	2304(34,21, 6,	5, 2, 0, 0, 0, 0, 0)	66	320210202010101002021
3309	7	12	70000	12	4608(34,20, 8,	4, 2, 0, 0, 0, 0, 0)	68	320210101020201003021
3310	7	12	70000	12	2304(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	310210201020102003022
3311	7	12	70000	12	4608(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	330210201010201003021
3312	7	12	70000	12	4608(34,20, 8,	4, 2, 0, 0, 0, 0, 0)	68	330210102020101002021
3313	7	12	70000	12	4608(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	310210201030201003021
3314	7	12	70000	12	1152(35,23, 5,	5, 2, 0, 0, 0, 0, 0)	66	220220202010101002021
3315	7	12	70000	12	2304(35,22, 7,	4, 2, 0, 0, 0, 0, 0)	68	220220101020201003021
3316	7	12	70000	12	1152(35,23, 8,	3, 2, 0, 0, 0, 0, 0)	70	210220201020102003022
3317	7	12	70000	12	2304(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	230220201010201003021
3318	7	12	70000	12	2304(35,22, 7,	4, 2, 0, 0, 0, 0, 0)	68	230220102020101002021
3319	7	12	70000	12	2304(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	210220201030201003021
3320	7	12	70000	12	2880(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	320210202030101002021
3321	7	12	70000	12	1728(36,23, 8,	3, 2, 0, 0, 0, 0, 0)	70	220220202030101002021
3322	7	12	70000	2	96(32,15,11,	5, 1, 0, 0, 0, 0, 0)	70	120320101021010002302
3323	7	12	70000	2	96(33,17,10,	5, 1, 0, 0, 0, 0, 0)	70	120210101032010003302
3324	7	12	70000	2	192(34,21, 5,	7, 1, 0, 0, 0, 0, 0)	68	110320122021010000302
3325	7	12	70000	2	192(34,21, 5,	7, 1, 0, 0, 0, 0, 0)	68	110210122032010000302
3326	7	12	70000	2	96(32,18, 5,	8, 1, 0, 0, 0, 0, 0)	68	110320122021010000201
3327	7	12	70000	2	96(32,18, 5,	8, 1, 0, 0, 0, 0, 0)	68	110210122032010000201
3328	7	12	70000	2	384(36,23, 7,	5, 1, 0, 0, 0, 0, 0)	70	110320233021010000302
3329	7	12	70000	2	384(36,23, 7,	5, 1, 0, 0, 0, 0, 0)	70	110210233032010000302
3330	7	12	70000	2	192(34,20, 7,	6, 1, 0, 0, 0, 0, 0)	68	110320233021010000201
3331	7	12	70000	2	192(34,20, 7,	6, 1, 0, 0, 0, 0, 0)	68	110210233032010000201
3332	7	12	70000	2	192(34,21, 5,	7, 1, 0, 0, 0, 0, 0)	68	120210123032010000201
3333	7	12	70000	2	384(36,24, 5,	6, 1, 0, 0, 0, 0, 0)	68	120210123032010000302
3334	7	12	70000	2	192(34,21, 5,	7, 1, 0, 0, 0, 0, 0)	68	120320123021010000201
3335	7	12	70000	2	384(36,24, 5,	6, 1, 0, 0, 0, 0, 0)	68	120320123021010000302
3336	7	12	70000	2	384(35,22, 6,	6, 1, 0, 0, 0, 0, 0)	68	120210232032010000201
3337	7	12	70000	2	768(37,25, 6,	5, 1, 0, 0, 0, 0, 0)	70	120210232032010000302
3338	7	12	70000	2	384(35,22, 6,	6, 1, 0, 0, 0, 0, 0)	68	120320232021010000201
3339	7	12	70000	2	768(37,25, 6,	5, 1, 0, 0, 0, 0, 0)	70	120320232021010000302
3340	7	12	70000	2	96(32,18, 5,	8, 1, 0, 0, 0, 0, 0)	68	120230121012010000201
3341	7	12	70000	2	96(32,18, 5,	8, 1, 0, 0, 0, 0, 0)	68	120120121023010000201
3342	7	12	70000	2	192(34,21, 5,	7, 1, 0, 0, 0, 0, 0)	68	120230121012010000302
3343	7	12	70000	2	192(34,21, 5,	7, 1, 0, 0, 0, 0, 0)	68	120120121023010000302
3344	7	12	70000	2	48(30,14, 8,	6, 2, 0, 0, 0, 0, 0)	66	120210121012010000201
3345	7	12	70000	2	96(32,17, 8,	5, 2, 0, 0, 0, 0, 0)	66	120210121012010000302
3346	7	12	70000	2	48(30,14, 8,	6, 2, 0, 0, 0, 0, 0)	66	120120121021010000201
3347	7	12	70000	2	96(32,17, 8,	5, 2, 0, 0, 0, 0, 0)	66	120120121021010000302
3348	7	12	70000	2	96(33,18, 8,	6, 1, 0, 0, 0, 0, 0)	68	120320121012020000301
3349	7	12	70000	2	192(34,20, 7,	6, 1, 0, 0, 0, 0, 0)	68	120320121012020000202
3350	7	12	70000	2	96(33,18, 8,	6, 1, 0, 0, 0, 0, 0)	68	120120121032020000301
3351	7	12	70000	2	192(35,22, 6,	6, 1, 0, 0, 0, 0, 0)	68	120230232012010000201
3352	7	12	70000	2	192(35,22, 6,	6, 1, 0, 0, 0, 0, 0)	68	120120232023010000201
3353	7	12	70000	2	384(37,25, 6,	5, 1, 0, 0, 0, 0, 0)	70	120230232012010000302
3354	7	12	70000	2	384(37,25, 6,	5, 1, 0, 0, 0, 0, 0)	70	120120232023010000302
3355	7	12	70000	2	96(33,18, 8,	6, 2, 0, 0, 0, 0, 0)	68	120210232012010000201
3356	7	12	70000	2	192(35,21, 9,	3, 2, 0, 0, 0, 0, 0)	70	120210232012010000302

GRAPH	N	L	C	SYMMETRY NUMBR	COUNT	CNOE	TERM	GRAPH MATR (X)
3357	7	12	70000	2	96(33,18,	9, 4, 2, 0, 0, 0, 0)	68	120120232021010000201
3358	7	12	70000	2	192(35,21,	9, 3, 2, 0, 0, 0, 0)	70	120120232021010000302
3359	7	12	70000	2	96(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120230123021020000301
3360	7	12	70000	2	192(36,23,	7, 5, 1, 0, 0, 0, 0)	70	120230123021020000202
3361	7	12	70000	2	96(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120210123023020000301
3362	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	120210121023010000301
3363	7	12	70000	2	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	120230121021020000202
3364	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	120230121021020000301
3365	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120230121032010000302
3366	7	12	70000	2	192(33,18,	8, 6, 1, 0, 0, 0, 0)	68	120320121023010000201
3367	7	12	70000	2	192(33,18,	8, 6, 1, 0, 0, 0, 0)	68	120230121032010000201
3368	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120320121023010000302
3369	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120320123023010000201
3370	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	120230123023010000201
3371	7	12	70000	2	96(32,18,	5, 8, 1, 0, 0, 0, 0)	68	12032012201201010000201
3372	7	12	70000	2	96(32,18,	5, 8, 1, 0, 0, 0, 0)	68	120210121032010000201
3373	7	12	70000	2	192(34,21,	5, 7, 1, 0, 0, 0, 0)	68	120320121021010000302
3374	7	12	70000	2	192(34,21,	5, 7, 1, 0, 0, 0, 0)	68	120210121032010000302
3375	7	12	70000	2	192(34,21,	5, 7, 1, 0, 0, 0, 0)	68	130230122012010000201
3376	7	12	70000	2	192(34,21,	5, 7, 1, 0, 0, 0, 0)	68	130120122023010000201
3377	7	12	70000	2	384(36,24,	5, 6, 1, 0, 0, 0, 0)	68	130230122012010000302
3378	7	12	70000	2	384(36,24,	5, 6, 1, 0, 0, 0, 0)	68	130120122023010000302
3379	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	130210122012010000201
3380	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130210122012010000302
3381	7	12	70000	2	96(32,17,	8, 5, 2, 0, 0, 0, 0)	66	130120122021010000201
3382	7	12	70000	2	192(34,20,	8, 4, 2, 0, 0, 0, 0)	68	130120122021010000302
3383	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	130320122012010000301
3384	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130320122012010000202
3385	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	130120122032020000301
3386	7	12	70000	2	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	130230231012010000201
3387	7	12	70000	2	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	130120231023010000201
3388	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130230231012010000302
3389	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130120231023010000302
3390	7	12	70000	2	96(32,16,	10, 4, 2, 0, 0, 0, 0)	68	130210231012010000201
3391	7	12	70000	2	192(34,19,	10, 3, 2, 0, 0, 0, 0)	70	130210231012010000302
3392	7	12	70000	2	96(32,16,	10, 4, 2, 0, 0, 0, 0)	68	130120231021010000201
3393	7	12	70000	2	192(34,19,	10, 3, 2, 0, 0, 0, 0)	70	130120231021010000302
3394	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	130210122023020000301
3395	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130230122021020000202
3396	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	130230122021020000301
3397	7	12	70000	2	384(35,21,	8, 5, 1, 0, 0, 0, 0)	70	130320122023010000201
3398	7	12	70000	2	384(35,21,	8, 5, 1, 0, 0, 0, 0)	70	130230122032010000201
3399	7	12	70000	2	192(34,21,	5, 7, 1, 0, 0, 0, 0)	68	130320122021010000201
3400	7	12	70000	2	192(34,21,	5, 7, 1, 0, 0, 0, 0)	68	130210122032010000201
3401	7	12	70000	2	384(36,24,	5, 6, 1, 0, 0, 0, 0)	68	130320122021010000302
3402	7	12	70000	2	384(36,24,	5, 6, 1, 0, 0, 0, 0)	68	130210122032010000302
3403	7	12	70000	2	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	130320231021010000201
3404	7	12	70000	2	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	130210231032010000201
3405	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130320231021010000302
3406	7	12	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130210231032010000302
3407	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	210220132031010000201
3408	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	210220132031010000302
3409	7	12	70000	2	96(33,18,	8, 6, 1, 0, 0, 0, 0)	68	210310132022010000201
3410	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	210310132022010000302
3411	7	12	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	210220223031010000201
3412	7	12	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	210310223022010000201
3413	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220220133031010000201
3414	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220310133022010000201
3415	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220220222031010000201
3416	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220310222022010000201
3417	7	12	70000	2	192(33,18,	8, 6, 1, 0, 0, 0, 0)	68	220220131013010000201
3418	7	12	70000	2	384(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220220131013010000302
3419	7	12	70000	2	192(33,18,	8, 6, 1, 0, 0, 0, 0)	68	220130131022010000201
3420	7	12	70000	2	384(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220130131022010000302
3421	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220220222013010000201
3422	7	12	70000	2	192(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220130222022010000201
3423	7	12	70000	2	192(33,18,	8, 6, 1, 0, 0, 0, 0)	68	220310131022010000201
3424	7	12	70000	2	384(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220310131022010000302
3425	7	12	70000	2	192(33,18,	8, 6, 1, 0, 0, 0, 0)	68	220220131031010000201
3426	7	12	70000	2	384(35,21,	8, 5, 1, 0, 0, 0, 0)	70	220220131031010000302
3427	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	230220132013010000201
3428	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	230130132022010000201
3429	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	230220221013010000201
3430	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	230130221022010000201
3431	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	230310132022010000201
3432	7	12	70000	2	288(35,21,	8, 5, 1, 0, 0, 0, 0)	70	230220132031010000201
3433	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	230310221022010000201
3434	7	12	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	230220221031010000201
3435	7	12	70000	2	96(34,19,	10, 3, 2, 0, 0, 0, 0)	70	120200232012101002200
3436	7	12	70000	2	192(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120200232012101003300
3437	7	12	70000	2	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120300123012102002300
3438	7	12	70000	2	96(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120300123012102003200
3439	7	12	70000	2	192(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120300232012101002300
3440	7	12	70000	2	192(36,23,	8, 3, 2, 0, 0, 0, 0)	70	120300232012101003200
3441	7	12	70000	2	96(34,20,	8, 4, 2, 0, 0, 0, 0)	68	220200222011101002200
3442	7	12	70000	2	192(36,24,	6, 4, 2, 0, 0, 0, 0)	68	220200222011101003300
3443	7	12	70000	2	192(36,24,	6, 4, 2, 0, 0, 0, 0)	68	220300222011101002300
3444	7	12	70000	2	192(36,24,	6, 4, 2, 0, 0, 0, 0)	68	220300222011101003200
3445	7	12	70000	2	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	230200112022101002300
3446	7	12	70000	2	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	230200112022101003200
3447	7	12	70000	2	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	230300112022101002200
3448	7	12	70000	2	288(37,25,	7, 3, 2, 0, 0, 0, 0)	70	230300112022101003300

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TFRM	GRAPH MATP LX
3460	7	12	70000	1	144137,25,	5, 7, 0, 0, 0, 0, 0, 0, 0, 1	70	320300123020210003201
3461	7	12	70000	1	96136,23,	6, 7, 0, 0, 0, 0, 0, 0, 0, 0	70	320300212020210003201
3462	7	12	70000	2	384134,20,	8, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	110210233012201000200
3463	7	12	70000	2	384135,22,	7, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	110210233012201000300
3464	7	12	70000	2	96132,16,10,	4, 2, 0, 0, 0, 0, 0, 0, 0, 0	68	110210233012201000100
3465	7	12	70000	2	336136,25,	4, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	110320122012202000200
3466	7	12	70000	2	288137,27,	3, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	110320122012202000300
3467	7	12	70000	2	96134,21,	6, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	110320122012202000100
3468	7	12	70000	2	1248136,23,	8, 3, 2, 0, 0, 0, 0, 0, 0, 0	70	110320233012201000200
3469	7	12	70000	2	1056137,25,	7, 3, 2, 0, 0, 0, 0, 0, 0, 0	70	110320233012201000300
3470	7	12	70000	2	384134,19,10,	3, 2, 0, 0, 0, 0, 0, 0, 0, 0	70	110320233012201000100
3471	7	12	70000	2	96132,17,	8, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	120120232012101000100
3472	7	12	70000	2	384134,21,	6, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	120120232012101000200
3473	7	12	70000	2	384135,23,	5, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	120120232012101000300
3474	7	12	70000	2	384136,23,	8, 3, 2, 0, 0, 0, 0, 0, 0, 0	70	120210123023201000300
3475	7	12	70000	2	96133,17,11,	3, 2, 0, 0, 0, 0, 0, 0, 0, 0	70	120210123023201000100
3476	7	12	70000	2	384135,21,	9, 3, 2, 0, 0, 0, 0, 0, 0, 0	70	120210123023201000200
3477	7	12	70000	2	576137,26,	5, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120230123012102000300
3478	7	12	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120230123012102000100
3479	7	12	70000	2	672136,24,	6, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120230123012102000200
3480	7	12	70000	2	384134,20,	8, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120230232012101000100
3481	7	12	70000	2	1248136,24,	6, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120230232012101000200
3482	7	12	70000	2	960137,26,	5, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120230232012101000300
3483	7	12	70000	2	96132,17,	8, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	120210232012101000100
3484	7	12	70000	2	384134,21,	6, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	120210232012101000200
3485	7	12	70000	2	384135,23,	5, 5, 2, 0, 0, 0, 0, 0, 0, 0	66	120210232012101000300
3486	7	12	70000	2	576137,26,	5, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120320123012102000300
3487	7	12	70000	2	192134,20,	8, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120320123012102000100
3488	7	12	70000	2	672136,24,	6, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120320123012102000200
3489	7	12	70000	2	1056137,26,	5, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120320232012101000300
3490	7	12	70000	2	384134,20,	8, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120320232012101000100
3491	7	12	70000	2	1248136,24,	6, 4, 2, 0, 0, 0, 0, 0, 0, 0	68	120320232012101000200
3492	7	12	70000	2	96132,16,10,	4, 2, 0, 0, 0, 0, 0, 0, 0, 0	68	1301201220231010001

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COORD	TERM	GRAPH MATRIX
3563	7	12	70000	2	192138,27,	6, 3, 2, 0, 0, 0, 0)	70	130210230023020210200
3564	7	12	70000	2	288136,23,	8, 3, 2, 0, 0, 0, 0)	70	130210210023020202010
3565	7	12	70000	2	192135,22,	7, 4, 2, 0, 0, 0, 0)	68	130210210033010320100
3566	7	12	70000	2	192137,25,	7, 3, 2, 0, 0, 0, 0)	70	130210320012030320100
3567	7	12	70000	2	384137,26,	5, 4, 2, 0, 0, 0, 0)	68	130210320021020320100
3568	7	12	70000	2	384137,25,	7, 3, 2, 0, 0, 0, 0)	70	130210320032010320100
3569	7	12	70000	2	288138,27,	6, 3, 2, 0, 0, 0, 0)	70	130210320023020210200
3570	7	12	70000	2	96135,22,	7, 4, 2, 0, 0, 0, 0)	68	130120210023010220100
3571	7	12	70000	2	192136,23,	8, 3, 2, 0, 0, 0, 0)	70	130120210032020230100
3572	7	12	70000	2	96137,26,	5, 4, 2, 0, 0, 0, 0)	68	130120320012020230100
3573	7	12	70000	2	96138,27,	6, 3, 2, 0, 0, 0, 0)	70	130120320032020120200
3574	7	12	70000	2	192137,25,	7, 3, 2, 0, 0, 0, 0)	70	130120320023010230100
3575	7	12	70000	2	192137,25,	7, 3, 2, 0, 0, 0, 0)	70	130120320021030230100
3576	7	12	70000	2	96137,25,	7, 3, 2, 0, 0, 0, 0)	70	130120320021030230100
3577	7	12	70000	2	96137,25,	7, 3, 2, 0, 0, 0, 0)	70	130120320023010230100
3578	7	12	70000	2	192136,23,	7, 5, 1, 0, 0, 0, 0)	70	110320233021010320000
3579	7	12	70000	2	192137,25,	6, 5, 1, 0, 0, 0, 0)	70	120320232021010230000
3580	7	12	70000	2	384137,25,	6, 5, 1, 0, 0, 0, 0)	70	120320232021010320000
3581	7	12	70000	2	192137,25,	6, 5, 1, 0, 0, 0, 0)	70	120230232012010320000
3582	7	12	70000	2	96135,21,	9, 3, 2, 0, 0, 0, 0)	70	120120232021010320000
3583	7	12	70000	2	96135,21,	8, 5, 1, 0, 0, 0, 0)	70	120230121032010230000
3584	7	12	70000	2	96135,21,	9, 5, 1, 0, 0, 0, 0)	70	120230121032010320000
3585	7	12	70000	2	192136,23,	7, 5, 1, 0, 0, 0, 0)	70	130230231012010230000
3586	7	12	70000	2	192136,23,	7, 5, 1, 0, 0, 0, 0)	70	130230231012010320000
3587	7	12	70000	2	96134,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130120231021010230000
3588	7	12	70000	2	96134,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130120231021010320000
3589	7	12	70000	2	192136,23,	7, 5, 1, 0, 0, 0, 0)	70	130230231021010230000
3590	7	12	70000	2	192136,23,	7, 5, 1, 0, 0, 0, 0)	70	130230231021010320000
3591	7	12	70000	8	384134,19,11,	1, 3, 0, 0, 0, 0, 0)	70	210220201030000132110
3592	7	12	70000	8	768136,23,	8, 3, 2, 0, 0, 0, 0)	70	220110202030000133210
3593	7	12	70000	8	384132,16,11,	2, 3, 0, 0, 0, 0, 0)	68	310210201020000122110
3594	7	12	70000	8	768133,18,10,	2, 3, 0, 0, 0, 0, 0)	68	310210201030000122110
3595	7	12	70000	8	768135,21,	9, 3, 2, 0, 0, 0, 0)	70	330120201020000122210
3596	7	12	70000	8	1536136,23,	8, 3, 2, 0, 0, 0, 0)	70	330120201030000122210
3597	7	12	70000	8	768134,20,	8, 4, 2, 0, 0, 0, 0)	68	230110201020000132210
3598	7	12	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	230110201030000132210
3599	7	12	70000	8	1536135,21,	9, 3, 2, 0, 0, 0, 0)	70	230220201020000132110
3600	7	12	70000	8	2304136,23,	8, 3, 2, 0, 0, 0, 0)	70	230220201030000132110
3601	7	12	70000	8	384132,16,10,	4, 2, 0, 0, 0, 0, 0)	68	330210201010000122110
3602	7	12	70000	8	1536134,20,	8, 4, 2, 0, 0, 0, 0)	68	330210201020000122110
3603	7	12	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	330210201030000122110
3604	7	12	70000	8	384135,21,	9, 3, 2, 0, 0, 0, 0)	70	220310202020000131210
3605	7	12	70000	8	576136,23,	8, 3, 2, 0, 0, 0, 0)	70	220310202030000131210
3606	7	12	70000	48	2304134,19,11,	2, 1, 1, 0, 0, 0, 0)	70	320210200021020120101
3607	7	12	70000	48	9216135,21,10,	2, 1, 1, 0, 0, 0, 0)	70	330210200021020120101
3608	7	12	70000	48	6912136,23,	9, 2, 1, 1, 0, 0, 0)	70	330210300021020120101
3609	7	12	70000	48	2304136,23,	9, 2, 1, 1, 0, 0, 0)	70	130230300021020120101
3610	7	12	70000	48	1152136,23,	9, 2, 1, 1, 0, 0, 0)	70	330120300021020210101
3611	7	12	70000	2	192136,23,	8, 3, 2, 0, 0, 0, 0)	70	120210200021020232200
3612	7	12	70000	2	192137,25,	7, 3, 2, 0, 0, 0, 0)	70	220110300031020133200
3613	7	12	70000	2	192137,26,	5, 4, 2, 0, 0, 0, 0)	68	220110300022010133200
3614	7	12	70000	2	384137,25,	7, 3, 2, 0, 0, 0, 0)	70	120210300021020232200
3615	7	12	70000	2	96134,21,	6, 5, 2, 0, 0, 0, 0)	66	220110200022010131200
3616	7	12	70000	2	96134,20,	8, 4, 2, 0, 0, 0, 0)	68	220110200031020131200
3617	7	12	70000	2	192135,23,	5, 5, 2, 0, 0, 0, 0)	66	220110300022010131200
3618	7	12	70000	2	192135,22,	7, 4, 2, 0, 0, 0, 0)	68	220110300031020131200
3619	7	12	70000	2	96136,23,	8, 3, 2, 0, 0, 0, 0)	70	220110300022030131200
3620	7	12	70000	2	192135,21,	9, 3, 2, 0, 0, 0, 0)	70	130210200021020231200
3621	7	12	70000	2	192136,24,	6, 4, 2, 0, 0, 0, 0)	68	230110200022010132200
3622	7	12	70000	2	192136,23,	8, 3, 2, 0, 0, 0, 0)	70	230110200031020132200
3623	7	12	70000	2	288136,23,	8, 3, 2, 0, 0, 0, 0)	70	130210300021020231200
3624	7	12	70000	2	384137,26,	5, 4, 2, 0, 0, 0, 0)	68	230110300022010132200
3625	7	12	70000	2	384137,25,	7, 3, 2, 0, 0, 0, 0)	70	230110300031020132200
3626	7	12	70000	2	96137,26,	5, 4, 2, 0, 0, 0, 0)	68	130120300023010122200
3627	7	12	70000	2	48138,27,	6, 3, 2, 0, 0, 0, 0)	70	130120300032020122200
3628	7	12	70000	4	192136,24,	5, 6, 1, 0, 0, 0, 0)	68	120320200021010123000
3629	7	12	70000	4	384136,24,	5, 6, 1, 0, 0, 0, 0)	68	120320200021010123000
3630	7	12	70000	4	192137,25,	6, 5, 1, 0, 0, 0, 0)	70	120230300021020123000
3631	7	12	70000	4	192136,24,	5, 6, 1, 0, 0, 0, 0)	68	130230300021010122000
3632	7	12	70000	4	96134,20,	8, 4, 2, 0, 0, 0, 0)	68	130120300021010122000
3633	7	12	70000	4	192137,25,	6, 5, 1, 0, 0, 0, 0)	70	130320300012020122000
3634	7	12	70000	4	192137,26,	6, 5, 1, 0, 0, 0, 0)	70	130230300021020122000
3635	7	12	70000	4	192136,24,	5, 6, 1, 0, 0, 0, 0)	68	130320300021010122000
3636	7	12	70000	4	192135,21,	8, 5, 1, 0, 0, 0, 0)	70	230220100031010132000
3637	7	12	70000	4	192135,21,	8, 5, 1, 0, 0, 0, 0)	70	230220200031010133000
3638	7	12	70000	4	384135,21,	8, 5, 1, 0, 0, 0, 0)	70	230130200022010132000
3639	7	12	70000	4	384135,21,	8, 5, 1, 0, 0, 0, 0)	70	230220200031010132000
3640	7	12	70000	2	48136,24,	4, 8, 0, 0, 0, 0, 0)	70	220200110020220103320
3641	7	12	70000	2	96137,25,	5, 7, 0, 0, 0, 0, 0)	70	320100210020230103230
3642	7	12	70000	2	96138,27,	4, 7, 0, 0, 0, 0, 0)	70	320200120020220103220
3643	7	12	70000	2	96139,29,	3, 7, 0, 0, 0, 0, 0)	70	120300230023200123200
3644	7	12	70000	2	48139,29,	3, 7, 0, 0, 0, 0, 0)	70	120300320023200123200
3645	7	12	70000	2	96138,27,	5, 5, 1, 0, 0, 0, 0)	70	310200203000230102310
3646	7	12	70000	2	96137,25,	6, 5, 1, 0, 0, 0, 0)	70	320100202000230103210
3647	7	12	70000	2	48136,23,	8, 3, 2, 0, 0, 0, 0)	70	310200201020230102310
3648	7	12	70000	2	48136,23,	7, 5, 1, 0, 0, 0, 0)	70	320100301010320202310
3649	7	12	70000	4	48136,24,	4, 8, 0, 0, 0, 0, 0)	70	220200200011330103310
3650	7	12	70000	4	192138,27,	4, 7, 0, 0, 0, 0, 0)	70	320200200012330103310
3651	7	12	70000	4	96138,28,	2, 8, 0, 0, 0, 0, 0)	70	320100300012320103220
3652	7	12	70000	8	1536132,17,	8, 5, 2, 0, 0, 0, 0)	66	220110101031020220100
3653	7	12	70000	8	768132,16,10,	4, 2, 0, 0, 0, 0, 0)	68	120210101032010320100
3654	7	12	70000	8	768132,18,	6, 6, 2, 0, 0, 0, 0)	66	220110101022010220100
3655	7	12	70000	8	1536134,20,	8, 4, 2, 0, 0, 0, 0)	68	230110102031020220100
3656	7	12	70000	8	768134,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130210102032010320100
3657	7	12	70000	8	768134,21,	6, 5, 2, 0, 0, 0, 0)	66	230110102022010220100
3658	7	12	70000	8	1536135,22,	7, 4, 2, 0, 0, 0, 0)	68	220110202031020220100
3659	7	12	70000	8	768135,21,	9, 3, 2, 0, 0, 0, 0)	70	120210202032010320100
3660	7	12	70000	8	768135,23,	5, 5, 2, 0, 0, 0, 0)	66	220110202022010220100
3661	7	12	70000	8	3072134,20,	8, 4, 2, 0, 0, 0, 0)	68	230110201031020220100
3662	7	12	70000	8	1536134,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130210201032010320100
3663	7	12	70000	8	1536134,21,	6, 5, 2, 0, 0, 0, 0)	66	230110201022010220100
3664	7	12	70000	8	384134,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130120201021030230100
3665	7	12	70000	8	384134,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130120201023010230100

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOF	TERM	GRAPH MATRIX
3666	7	12	70000	8	384(35,23, 8, 3, 2, 0, 0, 0, 0, 0)	70	220110202022030220100	
3667	7	12	70000	8	768(34,20, 8, 4, 2, 0, 0, 0, 0, 0)	68	230110201013022020100	
3668	7	12	70000	9	1536(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	230110201022030220100	
3669	7	12	70000	8	768(34,19,10, 3, 2, 0, 0, 0, 0, 0)	70	130210201012030320100	
3670	7	12	70000	1	48(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	120300301012300202110	
3671	7	12	70000	1	48(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	2102002010222300102130	
3672	7	12	70000	1	24(30,14, 8, 6, 2, 0, 0, 0, 0, 0)	66	210200201011200102110	
3673	7	12	70000	1	48(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	210200201011200203220	
3674	7	12	70000	1	48(33,18, 9, 4, 2, 0, 0, 0, 0, 0)	68	2102002010222300102110	
3675	7	12	70000	1	48(33,19, 6, 7, 1, 0, 0, 0, 0, 0)	68	210200302011200102120	
3676	7	12	70000	1	48(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	210200302011200203210	
3677	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	210200302022300102120	
3678	7	12	70000	1	48(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	210300201013200203120	
3679	7	12	70000	1	96(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	210300201022300102230	
3680	7	12	70000	1	48(32,17, 8, 5, 2, 0, 0, 0, 0, 0)	66	210300201011200102210	
3681	7	12	70000	1	48(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	210300201011200203120	
3682	7	12	70000	1	96(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	210300201022300102210	
3683	7	12	70000	1	48(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	210300203011200102210	
3684	7	12	70000	1	96(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	210300203022300102210	
3685	7	12	70000	1	96(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	210300302011200102220	
3686	7	12	70000	1	48(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	210300302011200203110	
3687	7	12	70000	1	96(33,18, 8, 6, 1, 0, 0, 0, 0, 0)	68	220200202011300103110	
3688	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	22020020202200103110	
3689	7	12	70000	1	96(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	220200301011300103120	
3690	7	12	70000	1	96(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	220200301011300202110	
3691	7	12	70000	1	192(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	220300202011300103210	
3692	7	12	70000	1	96(33,17,10, 5, 1, 0, 0, 0, 0, 0)	70	220300301011300202110	
3693	7	12	70000	1	48(32,17, 8, 5, 2, 0, 0, 0, 0, 0)	66	310200201012200102110	
3694	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	310200201012200203220	
3695	7	12	70000	1	48(32,16,10, 4, 2, 0, 0, 0, 0, 0)	68	310200201021300102110	
3696	7	12	70000	1	48(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	310200201021300102330	
3697	7	12	70000	1	48(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	310200201021300102130	
3698	7	12	70000	1	48(34,19,10, 3, 2, 0, 0, 0, 0, 0)	70	310200201021300102310	
3699	7	12	70000	1	48(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	310200203021300102310	
3700	7	12	70000	1	96(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	310200302012200102120	
3701	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	310200302021300102120	
3702	7	12	70000	1	48(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	310300102021300102220	
3703	7	12	70000	1	96(34,20, 8, 4, 2, 0, 0, 0, 0, 0)	68	310300201012200102210	
3704	7	12	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	310300201012200203120	
3705	7	12	70000	1	96(34,19,10, 3, 2, 0, 0, 0, 0, 0)	70	310300201021300102210	
3706	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	310300201021300102230	
3707	7	12	70000	1	96(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	310300203012200102210	
3708	7	12	70000	1	96(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	310300203021300102210	
3709	7	12	70000	1	192(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	310300302012200102220	
3710	7	12	70000	1	48(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	320100202021200103210	
3711	7	12	70000	1	144(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	320200202012300103110	
3712	7	12	70000	1	96(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	320200202021200103110	
3713	7	12	70000	2	96(38,27, 4, 7, 0, 0, 0, 0, 0, 0)	70	320200123020220100320	
3714	7	12	70000	2	96(32,18, 5, 8, 1, 0, 0, 0, 0, 0)	68	230100201011020102210	
3715	7	12	70000	2	96(33,19, 8, 6, 1, 0, 0, 0, 0, 0)	68	220100301011020202310	
3716	7	12	70000	2	192(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	230100201022030102210	
3717	7	12	70000	2	96(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	220200202011030101310	
3718	7	12	70000	2	96(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	220200202022020101310	
3719	7	12	70000	2	384(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	230200201011030102310	
3720	7	12	70000	2	192(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	22020030101103020210	
3721	7	12	70000	2	384(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	230200201022020102310	
3722	7	12	70000	2	192(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	320200101021020103320	
3723	7	12	70000	2	96(33,17,11, 3, 2, 0, 0, 0, 0, 0)	70	310200201021020102310	
3724	7	12	70000	2	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	310200203021020102310	
3725	7	12	70000	2	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	320100202021030103210	
3726	7	12	70000	2	192(34,21, 5, 7, 1, 0, 0, 0, 0, 0)	68	330100201012020102210	
3727	7	12	70000	2	192(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	32010030101202022310	
3728	7	12	70000	2	192(34,20, 7, 6, 1, 0, 0, 0, 0, 0)	68	330100201021030102210	
3729	7	12	70000	2	144(36,24, 5, 6, 1, 0, 0, 0, 0, 0)	68	320200202012030101310	
3730	7	12	70000	2	96(35,22, 6, 6, 1, 0, 0, 0, 0, 0)	68	320200202021020101310	
3731	7	12	70000	2	576(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	330200201012030102310	
3732	7	12	70000	2	384(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	330200201021020102310	
3733	7	12	70000	72	13824(32,17, 8, 5, 2, 0, 0, 0, 0, 0)	66	320120202021010101010	
3734	7	12	70000	72	13824(32,16,10, 4, 2, 0, 0, 0, 0, 0)	68	330120102021010221010	
3735	7	12	70000	72	3456(32,18, 6, 6, 2, 0, 0, 0, 0, 0)	66	220220202011010101010	
3736	7	12	70000	72	13824(33,17,11, 3, 2, 0, 0, 0, 0, 0)	70	230220102031010201010	
3737	7	12	70000	72	6912(33,18, 9, 4, 2, 0, 0, 0, 0, 0)	68	220220202031010101010	
3738	7	11	70000	1	24(32,16,10, 4, 2, 0, 0, 0, 0, 0)	68	110210210012210000002	
3739	7	11	70000	1	48(33,18, 9, 4, 2, 0, 0, 0, 0, 0)	68	110210210012210000003	
3740	7	11	70000	1	48(34,19,10, 3, 2, 0, 0, 0, 0, 0)	70	110210320012210000002	
3741	7	11	70000	1	96(35,21, 9, 3, 2, 0, 0, 0, 0, 0)	70	110210320012210000003	
3742	7	11	70000	1	48(34,19, 9, 5, 1, 0, 0, 0, 0, 0)	70	110210320012230000001	
3743	7	11	70000	1	192(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	110210320012230000002	
3744	7	11	70000	1	192(37,25, 6, 5, 1, 0, 0, 0, 0, 0)	70	110210320012230000003	
3745	7	11	70000	1	96(35,21, 8, 5, 1, 0, 0, 0, 0, 0)	70	110320210012220000002	
3746	7	11	70000	1	144(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	110320210012220000003	
3747	7	11	70000	1	48(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	120320120012120000003	
3748	7	11	70000	1	48(36,23, 7, 5, 1, 0, 0, 0, 0, 0)	70	120320210012120000003	
3749	7	11	70000	1	48(36,23, 7, 5, 1, 0,			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH	MATRIX
3769	7	11	70000	2	192(38,27,4,7,0,0,0,0,0,0)	70	2103001320132200000002		
3770	7	11	70000	4	768(37,25,7,3,2,0,0,0,0,0)	70	2303001120221010000002		
3771	7	11	70000	4	192(34,19,10,3,2,0,0,0,0,0)	70	1202001210232010000001		
3772	7	11	70000	4	768(36,23,8,3,2,0,0,0,0,0)	70	2302001120221010000002		
3773	7	11	70000	4	192(37,25,7,3,2,0,0,0,0,0)	70	1203001230121020000002		
3774	7	11	70000	4	192(35,21,9,3,2,0,0,0,0,0)	70	2103001120132020000001		
3775	7	11	70000	4	768(37,25,7,3,2,0,0,0,0,0)	70	2103001120132020000002		
3776	7	11	70000	4	768(38,27,6,3,2,0,0,0,0,0)	70	3203002120121010000003		
3777	7	11	70000	4	1344(38,27,6,3,2,0,0,0,0,0)	70	2303001120221010000003		
3778	7	11	70000	4	384(35,21,9,3,2,0,0,0,0,0)	70	1203001210232010000001		
3779	7	11	70000	4	1344(37,25,7,3,2,0,0,0,0,0)	70	1203001210232010000002		
3780	7	11	70000	4	384(38,27,6,3,2,0,0,0,0,0)	70	1203002320121010000003		
3781	7	11	70000	4	384(35,22,7,4,2,0,0,0,0,0)	68	2203001110222010000001		
3782	7	11	70000	4	48(32,16,10,4,2,0,0,0,0,0)	68	2201001110222010000001		
3783	7	11	70000	4	384(34,20,8,4,2,0,0,0,0,0)	68	2202001110222010000001		
3784	7	11	70000	4	1344(37,26,5,4,2,0,0,0,0,0)	68	2203001110222010000002		
3785	7	11	70000	4	720(36,24,6,4,2,0,0,0,0,0)	68	2202001110222010000002		
3786	7	11	70000	4	672(38,28,4,4,2,0,0,0,0,0)	68	2203001110222010000003		
3787	7	11	70000	2	96(36,23,6,7,0,0,0,0,0,0)	70	320200301012310000102		
3788	7	11	70000	2	192(37,25,5,7,0,0,0,0,0,0)	70	320200202012310000102		
3789	7	11	70000	2	96(36,23,6,7,0,0,0,0,0,0)	70	210300201013220000301		
3790	7	11	70000	2	96(37,25,5,7,0,0,0,0,0,0)	70	220200202013310000102		
3791	7	11	70000	2	96(37,25,5,7,0,0,0,0,0,0)	70	220200202013310000201		
3792	7	11	70000	2	96(36,23,6,7,0,0,0,0,0,0)	70	220200301013310000102		
3793	7	11	70000	2	96(36,23,6,7,0,0,0,0,0,0)	70	220200301013310000201		
3794	7	11	70000	2	96(32,16,9,6,1,0,0,0,0,0)	68	1202101010123020000001		
3795	7	11	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	1202101010123020000002		
3796	7	11	70000	2	384(35,22,6,6,1,0,0,0,0,0)	68	1202101010123020000003		
3797	7	11	70000	2	48(32,16,10,4,2,0,0,0,0,0)	68	1102102010122010000002		
3798	7	11	70000	2	96(33,18,9,4,2,0,0,0,0,0)	68	1102102010122010000003		
3799	7	11	70000	2	192(35,21,8,5,1,0,0,0,0,0)	70	1302101020122020000002		
3800	7	11	70000	2	288(36,23,7,5,1,0,0,0,0,0)	70	1302101020122020000003		
3801	7	11	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	1203201010123020000001		
3802	7	11	70000	2	768(36,23,7,5,1,0,0,0,0,0)	70	1203201010123020000002		
3803	7	11	70000	2	768(37,25,6,5,1,0,0,0,0,0)	70	1203201010123020000003		
3804	7	11	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	1103202010122010000002		
3805	7	11	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	1103202010122010000003		
3806	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	1301202010122010000002		
3807	7	11	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	1301202010122010000003		
3808	7	11	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	1202102020123010000002		
3809	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1202102020123010000003		
3810	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1302302010122010000002		
3811	7	11	70000	2	384(37,25,6,5,1,0,0,0,0,0)	70	1302302010122010000003		
3812	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	1302102010122010000002		
3813	7	11	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	1302102010122010000003		
3814	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1303202010122010000002		
3815	7	11	70000	2	384(37,25,6,5,1,0,0,0,0,0)	70	1303202010122010000003		
3816	7	11	70000	2	48(34,19,9,5,1,0,0,0,0,0)	70	2103101020132020000001		
3817	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	2103101020132020000002		
3818	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	2103101020132020000003		
3819	7	11	70000	2	48(37,25,6,5,1,0,0,0,0,0)	70	2201302020131010000003		
3820	7	11	70000	2	96(38,27,5,5,1,0,0,0,0,0)	70	2202202020131010000003		
3821	7	11	70000	2	48(37,25,6,5,1,0,0,0,0,0)	70	2203102020131010000003		
3822	7	11	70000	12	576(36,24,6,4,2,0,0,0,0,0)	68	220200202010101002021		
3823	7	11	70000	12	1152(36,23,8,3,2,0,0,0,0,0)	70	220200101020201003021		
3824	7	11	70000	12	1152(36,23,8,3,2,0,0,0,0,0)	70	230200102020101002021		
3825	7	11	70000	12	2304(37,26,5,4,2,0,0,0,0,0)	68	320200202010101002021		
3826	7	11	70000	12	4608(37,25,7,3,2,0,0,0,0,0)	70	320200101020201003021		
3827	7	11	70000	12	4608(37,25,7,3,2,0,0,0,0,0)	70	330200102020101002021		
3828	7	11	70000	12	1728(38,28,4,4,2,0,0,0,0,0)	68	320300202010101002021		
3829	7	11	70000	12	3456(38,27,6,3,2,0,0,0,0,0)	70	320300101020201003021		
3830	7	11	70000	12	3456(38,27,6,3,2,0,0,0,0,0)	70	330300102020101002021		
3831	7	11	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	1103202100210100000302		
3832	7	11	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	1102102100320100000302		
3833	7	11	70000	2	96(32,16,9,6,1,0,0,0,0,0)	68	1103202100210100000201		
3834	7	11	70000	2	96(32,16,9,6,1,0,0,0,0,0)	68	1102102100320100000201		
3835	7	11	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	1103203200210100000201		
3836	7	11	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	1102103200320100000201		
3837	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	1203201200210100000302		
3838	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	1202101200320100000302		
3839	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	1203201200210100000201		
3840	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	1202101200320100000201		
3841	7	11	70000	2	384(36,23,7,5,1,0,0,0,0,0)	70	1203202300210100000201		
3842	7	11	70000	2	384(36,23,7,5,1,0,0,0,0,0)	70	1202102300320100000201		
3843	7	11	70000	2	672(36,23,7,5,1,0,0,0,0,0)	70	1203202100210100000302		
3844	7	11	70000	2	672(36,23,7,5,1,0,0,0,0,0)	70	1202102100320100000302		
3845	7	11	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	1203202100210100000201		
3846	7	11	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	1202102100320100000201		
3847	7	11	70000	2	768(36,23,7,5,1,0,0,0,0,0)	70	1203203200210100000201		
3848	7	11	70000	2	768(36,23,7,5,1,0,0,0,0,0)	70	1202103200320100000201		
3849	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	1202302100120100000201		
3850	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	1201202100230100000201		
3851	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1202302100120100000302		
3852	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1201202100230100000302		
3853	7	11	70000	2	48(32,16,10,4,2,0,0,0,0,0)	68	1202102100120100000201		
3854	7	11	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	1202102100120100000302		
3855	7	11	70000	2	48(32,16,10,4,2,0,0,0,0,0)	68	1201202100210100000302		
3856	7	11	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	1201202100210100000302		
3857	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1202303200120100000201		
3858	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	1201203200230100000201		
3859	7	11	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	1202103200120100000201		
3860	7	11	70000	2	96(34,19,10,3,2,0,0,0,0,0)	70	1201203200210100000201		
3861	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	1303201200210100000302		
3862	7	11	70000	2	288(37,25,6,5,1,0,0,0,0,0)	70	1302101200320100000302		
3863	7	11	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	1303201200210100000201		
3864	7	11							

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COEF	TERM	GRAPH MATRIX
3872	7	11	70000	2	768(37,25,6,5,1,0,0,0,0)	70	130210320032010000201	
3873	7	11	70000	2	192(35,22,6,6,1,0,0,0,0)	68	130230210012010000201	
3874	7	11	70000	2	192(35,22,6,6,1,0,0,0,0)	68	130120210023010000201	
3875	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	130230210012010000302	
3876	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	130120210023010000302	
3877	7	11	70000	2	96(33,18,9,4,2,0,0,0,0)	68	130210210012010000201	
3878	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	130210210012010000302	
3879	7	11	70000	2	96(33,18,9,4,2,0,0,0,0)	68	130120210021010000201	
3880	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	130120210021010000302	
3881	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	130230320012010000201	
3882	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	130120320023010000201	
3883	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	130210320012010000201	
3884	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	130120320021010000201	
3885	7	11	70000	2	192(37,25,6,5,1,0,0,0,0)	70	130230230012010000201	
3886	7	11	70000	2	192(37,25,6,5,1,0,0,0,0)	70	130120230023010000201	
3887	7	11	70000	2	96(35,21,9,3,2,0,0,0,0)	70	130210230012010000201	
3888	7	11	70000	2	96(35,21,9,3,2,0,0,0,0)	70	130120230021010000201	
3889	7	11	70000	2	96(34,19,10,3,2,0,0,0,0)	70	120232200012110010000	
3890	7	11	70000	2	384(36,23,8,3,2,0,0,0,0)	70	120232200012110020000	
3891	7	11	70000	2	384(37,25,7,3,2,0,0,0,0)	70	120232200012110030000	
3892	7	11	70000	2	96(35,21,9,3,2,0,0,0,0)	70	120123300012110010000	
3893	7	11	70000	2	384(37,25,7,3,2,0,0,0,0)	70	120123300012110020000	
3894	7	11	70000	2	384(38,27,6,3,2,0,0,0,0)	70	120123300012110030000	
3895	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	120232300012110010000	
3896	7	11	70000	2	768(37,25,7,3,2,0,0,0,0)	70	120232300012110020000	
3897	7	11	70000	2	768(38,27,6,3,2,0,0,0,0)	70	120232300012110030000	
3898	7	11	70000	2	96(34,19,10,3,2,0,0,0,0)	70	210223200011210010000	
3899	7	11	70000	2	288(36,23,8,3,2,0,0,0,0)	70	210223200011210020000	
3900	7	11	70000	2	192(37,25,7,3,2,0,0,0,0)	70	210223200011210030000	
3901	7	11	70000	2	96(35,21,9,3,2,0,0,0,0)	70	210132300011220010000	
3902	7	11	70000	2	288(37,25,7,3,2,0,0,0,0)	70	210132300011220020000	
3903	7	11	70000	2	288(38,27,6,3,2,0,0,0,0)	70	210132300011220030000	
3904	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	210223300011210010000	
3905	7	11	70000	2	576(37,25,7,3,2,0,0,0,0)	70	210223300011210020000	
3906	7	11	70000	2	576(38,27,6,3,2,0,0,0,0)	70	210223300011210030000	
3907	7	11	70000	2	96(32,16,10,4,2,0,0,0,0)	68	220222100011110010000	
3908	7	11	70000	2	384(34,20,8,4,2,0,0,0,0)	68	220222100011110020000	
3909	7	11	70000	2	384(35,22,7,4,2,0,0,0,0)	68	220222100011110030000	
3910	7	11	70000	2	384(34,20,8,4,2,0,0,0,0)	68	220222200011110010000	
3911	7	11	70000	2	1440(36,24,6,4,2,0,0,0,0)	68	220222200011110020000	
3912	7	11	70000	2	1344(37,26,5,4,2,0,0,0,0)	68	220222200011110030000	
3913	7	11	70000	2	384(35,22,7,4,2,0,0,0,0)	68	220222300011110010000	
3914	7	11	70000	2	1344(37,26,5,4,2,0,0,0,0)	68	220222300011110020000	
3915	7	11	70000	2	1344(38,28,4,4,2,0,0,0,0)	68	220222300011110030000	
3916	7	11	70000	2	96(32,15,12,3,2,0,0,0,0)	70	230112100022110010000	
3917	7	11	70000	2	384(34,19,10,3,2,0,0,0,0)	70	230112100022110020000	
3918	7	11	70000	2	384(35,21,9,3,2,0,0,0,0)	70	230112100022110030000	
3919	7	11	70000	2	384(34,19,10,3,2,0,0,0,0)	70	230112200022110010000	
3920	7	11	70000	2	1440(36,23,8,3,2,0,0,0,0)	70	230112200022110020000	
3921	7	11	70000	2	1344(37,25,7,3,2,0,0,0,0)	70	230112200022110030000	
3922	7	11	70000	2	384(35,21,9,3,2,0,0,0,0)	70	230112300022110010000	
3923	7	11	70000	2	1344(37,25,7,3,2,0,0,0,0)	70	230112300022110020000	
3924	7	11	70000	2	1344(38,27,6,3,2,0,0,0,0)	70	230112300022110030000	
3925	7	11	70000	2	96(32,15,12,3,2,0,0,0,0)	70	320212100012110010000	
3926	7	11	70000	2	384(34,19,10,3,2,0,0,0,0)	70	320212100012110020000	
3927	7	11	70000	2	384(35,21,9,3,2,0,0,0,0)	70	320212100012110030000	
3928	7	11	70000	2	384(34,19,10,3,2,0,0,0,0)	70	320212200012110010000	
3929	7	11	70000	2	1440(36,23,8,3,2,0,0,0,0)	70	320212200012110020000	
3930	7	11	70000	2	1440(37,25,7,3,2,0,0,0,0)	70	320212200012110030000	
3931	7	11	70000	2	384(35,21,9,3,2,0,0,0,0)	70	320212300012110010000	
3932	7	11	70000	2	1440(37,25,7,3,2,0,0,0,0)	70	320212300012110020000	
3933	7	11	70000	2	1248(38,27,6,3,2,0,0,0,0)	70	320212300012110030000	
3934	7	11	70000	2	96(34,20,7,6,1,0,0,0,0)	68	121230200012010000201	
3935	7	11	70000	2	96(34,20,7,6,1,0,0,0,0)	68	121120200023010000201	
3936	7	11	70000	2	192(36,23,7,5,1,0,0,0,0)	70	121230200012010000302	
3937	7	11	70000	2	192(36,23,7,5,1,0,0,0,0)	70	121120200023010000302	
3938	7	11	70000	2	48(32,16,10,4,2,0,0,0,0)	68	121210200012010000201	
3939	7	11	70000	2	96(34,19,10,3,2,0,0,0,0)	70	121210200012010000302	
3940	7	11	70000	2	48(32,16,10,4,2,0,0,0,0)	68	121120200021010000201	
3941	7	11	70000	2	96(34,19,10,3,2,0,0,0,0)	70	121120200021010000302	
3942	7	11	70000	2	192(35,22,6,6,1,0,0,0,0)	68	121230300012010000201	
3943	7	11	70000	2	192(35,22,6,6,1,0,0,0,0)	68	121120300023010000201	
3944	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	121230300012010000302	
3945	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	121120300023010000302	
3946	7	11	70000	2	96(33,18,9,4,2,0,0,0,0)	68	121210300012010000201	
3947	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	121210300012010000302	
3948	7	11	70000	2	96(33,18,9,4,2,0,0,0,0)	68	121120300021010000201	
3949	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	121120300021010000302	
3950	7	11	70000	2	96(32,16,9,6,1,0,0,0,0)	68	121320100021010000201	
3951	7	11	70000	2	96(32,16,9,6,1,0,0,0,0)	68	121210100032010000201	
3952	7	11	70000	2	192(34,19,9,5,1,0,0,0,0)	70	121320100021010000302	
3953	7	11	70000	2	192(34,19,9,5,1,0,0,0,0)	70	121210100032010000302	
3954	7	11	70000	2	384(34,20,7,6,1,0,0,0,0)	68	121320200021010000201	
3955	7	11	70000	2	384(34,20,7,6,1,0,0,0,0)	68	121210200032010000201	
3956	7	11	70000	2	672(36,23,7,5,1,0,0,0,0)	70	121320200021010000302	
3957	7	11	70000	2	672(36,23,7,5,1,0,0,0,0)	70	121210200032010000302	
3958	7	11	70000	2	384(35,22,6,6,1,0,0,0,0)	68	121320300021010000201	
3959	7	11	70000	2	384(35,22,6,6,1,0,0,0,0)	68	121210300032010000201	
3960	7	11	70000	2	576(37,25,6,5,1,0,0,0,0)	70	121320300021010000302	
3961	7	11	70000	2	672(37,25,6,5,1,0,0,0,0)	70	121210300032010000302	
3962	7	11	70000	2	192(36,23,7,5,1,0,0,0,0)	70	132230200012010000201	
3963	7	11	70000	2	192(36,23,7,5,1,0,0,0,0)	70	132120200023010000201	
3964	7	11	70000	2	96(34,19,10,3,2,0,0,0,0)	70	132210200012010000201	
3965	7	11	70000	2	96(34,19,10,3,2,0,0,0,0)	70	132120200021010000201	
3966	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	132230300012010000201	
3967	7	11	70000	2	384(37,25,6,5,1,0,0,0,0)	70	132120300023010000201	
3968	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	132210300012010000201	
3969	7	11	70000	2	192(35,21,9,3,2,0,0,0,0)	70	132120300021010000201	
3970	7	11	70000	2	192(34,19,9,5,1,0,0,0,0)	70	132230100021010000201	
3971	7	11	70000	2	192(34,19,9,5,1,0,0,0,0)	70	132210100032010000201	
3972	7	11	70000	2	768(36,23,7,5,1,0,0,0,0)	70	132230200021010000201	
3973	7	11	70000	2	768(36,23,7,5,1,0,0,0,0			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
3975	7	11	70000	2	768(37,25,	6, 5, 1, 0, 0, 0, 01	70	132210330032010000201
3976	7	11	70000	2	96(34,20,	7, 6, 1, 0, 0, 0, 0)	68	112320203021010000201
3977	7	11	70000	2	96(34,20,	7, 6, 1, 0, 0, 0, 01	68	112210200032010000201
3978	7	11	70000	2	96(36,23,	7, 5, 1, 0, 0, 0, 0)	70	112320200021010000302
3979	7	11	70000	2	96(36,23,	7, 5, 1, 0, 0, 0, 0)	70	112210200032010000302
3980	7	11	70000	2	192(35,22,	6, 6, 1, 0, 0, 0, 0)	68	112320300021010000201
3981	7	11	70000	2	192(35,22,	6, 6, 1, 0, 0, 0, 01	68	112210300032010000201
3982	7	11	70000	2	192(37,25,	6, 5, 1, 0, 0, 0, 0)	70	112320300021010000302
3983	7	11	70000	2	288(37,25,	6, 5, 1, 0, 0, 0, 0)	70	112210300032010000302
3984	7	11	70000	2	192(37,25,	6, 5, 1, 0, 0, 0, 0)	70	123230300012010000201
3985	7	11	70000	2	192(37,25,	6, 5, 1, 0, 0, 0, 0)	70	123120300023010000201
3986	7	11	70000	2	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	123210300012010000201
3987	7	11	70000	2	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	123120300023010000201
3988	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	123220200021010000201
3989	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	123210200032010000201
3990	7	11	70000	2	576(37,25,	6, 5, 1, 0, 0, 0, 0)	70	123230300021010000201
3991	7	11	70000	2	576(37,25,	6, 5, 1, 0, 0, 0, 0)	70	123210300032010000201
3992	7	11	70000	2	48(32,16,10,	4, 2, 0, 0, 0, 0, 0)	68	120210120012110000200
3993	7	11	70000	2	96(33,18,	9, 4, 2, 0, 0, 0, 0)	68	120210120012110000300
3994	7	11	70000	2	96(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	130210120012210000200
3995	7	11	70000	2	192(35,21,	9, 3, 2, 0, 0, 0, 0)	70	130210120012210000300
3996	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 01	70	13023012001210000200
3997	7	11	70000	2	384(37,25,	6, 5, 1, 0, 0, 0, 0)	70	130230120012210000300
3998	7	11	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	130230120012210000100
3999	7	11	70000	2	480(35,21,	8, 5, 1, 0, 0, 0, 01	70	120320120012120000200
4000	7	11	70000	2	480(36,23,	7, 5, 1, 0, 0, 0, 0)	70	120320120012120000300
4001	7	11	70000	2	96(33,17,10,	5, 1, 0, 0, 0, 0, 0)	70	120320120012120000100
4002	7	11	70000	2	96(34,19,10,	3, 2, 0, 0, 0, 0, 01	70	120210230012110000200
4003	7	11	70000	2	192(35,21,	9, 3, 2, 0, 0, 0, 0)	70	120210230012110000300
4004	7	11	70000	2	24(32,16,10,	4, 2, 0, 0, 0, 0, 01	68	120210210012110000200
4005	7	11	70000	2	48(33,18,	9, 4, 2, 0, 0, 0, 01	68	120210210012110000300
4006	7	11	70000	2	96(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	120210320012110000200
4007	7	11	70000	2	192(35,21,	9, 3, 2, 0, 0, 0, 0)	70	120210320012110000300
4008	7	11	70000	2	240(35,21,	8, 5, 1, 0, 0, 0, 01	70	120320210012120000200
4009	7	11	70000	2	240(36,23,	7, 5, 1, 0, 0, 0, 0)	70	120320210012120000300
4010	7	11	70000	2	48(33,17,10,	5, 1, 0, 0, 0, 0, 01	70	120320210012120000100
4011	7	11	70000	2	96(36,23,	7, 5, 1, 0, 0, 0, 01	70	130120230012220000100
4012	7	11	70000	2	384(38,27,	5, 5, 1, 0, 0, 0, 0)	70	130120230012220000200
4013	7	11	70000	2	384(39,29,	4, 5, 1, 0, 0, 0, 0)	70	130120230012220000300
4014	7	11	70000	2	384(37,25,	6, 5, 1, 0, 0, 0, 01	70	120230210012310000300
4015	7	11	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	120230210012310000100
4016	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 01	70	120230210012310000200
4017	7	11	70000	2	384(37,25,	6, 5, 1, 0, 0, 0, 01	70	130230210012210000300
4018	7	11	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 0)	70	130230210012210000100
4019	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 0)	70	130230210012210000200
4020	7	11	70000	2	48(36,23,	7, 5, 1, 0, 0, 0, 01	70	130120320012220000100
4021	7	11	70000	2	192(38,27,	5, 5, 1, 0, 0, 0, 01	70	130120320012220000200
4022	7	11	70000	2	192(39,29,	4, 5, 1, 0, 0, 0, 01	70	130120320012220000300
4023	7	11	70000	1	288(38,27,	4, 7, 0, 0, 0, 0, 01	70	120300123012320000200
4024	7	11	70000	1	240(39,29,	3, 7, 0, 0, 0, 0, 0)	70	120300123012320000300
4025	7	11	70000	1	96(36,23,	6, 7, 0, 0, 0, 0, 01	70	120300123012320000100
4026	7	11	70000	1	48(36,23,	6, 7, 0, 0, 0, 0, 0)	70	210300132013220000100
4027	7	11	70000	1	192(38,27,	4, 7, 0, 0, 0, 0, 0)	70	210300132013220000200
4028	7	11	70000	1	192(39,29,	3, 7, 0, 0, 0, 0, 0)	70	210300132013220000300
4029	7	11	70000	2	96(36,23,	6, 7, 0, 0, 0, 0, 01	70	210300132013220000100
4030	7	11	70000	2	384(38,27,	4, 7, 0, 0, 0, 0, 0)	70	210300132013220000200
4031	7	11	70000	2	384(39,29,	3, 7, 0, 0, 0, 0, 0)	70	210300132013220000300
4032	7	11	70000	2	48(36,24,	4, 8, 0, 0, 0, 0, 0)	70	120230121023000002010
4033	7	11	70000	2	96(38,27,	4, 7, 0, 0, 0, 0, 01	70	120230121023000003020
4034	7	11	70000	2	48(36,24,	4, 8, 0, 0, 0, 0, 01	70	120230121023000001020
4035	7	11	70000	2	96(38,27,	4, 7, 0, 0, 0, 0, 01	70	120230121023000002030
4036	7	11	70000	2	96(36,24,	4, 8, 0, 0, 0, 0, 01	70	1202301210230000002010
4037	7	11	70000	2	192(38,27,	4, 7, 0, 0, 0, 0, 01	70	1202301210230000003020
4038	7	11	70000	2	96(36,24,	4, 8, 0, 0, 0, 0, 0)	70	1202301210230000001020
4039	7	11	70000	2	192(38,27,	4, 7, 0, 0, 0, 0, 01	70	1202301210230000002030
4040	7	11	70000	2	48(36,24,	4, 8, 0, 0, 0, 0, 0)	70	1202301210230000002010
4041	7	11	70000	2	96(38,27,	4, 7, 0, 0, 0, 0, 01	70	1202301210230000003020
4042	7	11	70000	2	48(36,24,	4, 8, 0, 0, 0, 0, 0)	70	1202301210230000001020
4043	7	11	70000	2	96(38,27,	4, 7, 0, 0, 0, 0, 01	70	1202301210230000002030
4044	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 01	70	1302302310120000002010
4045	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	1302302310120000001020
4046	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	1302302310120000002010
4047	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 01	70	1302302310120000001020
4048	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 01	70	1302302310210000002010
4049	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 01	70	1302302310210000001020
4050	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	1302302310210000002010
4051	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 01	70	1302302310210000001020
4052	7	11	70000	2	96(34,20,	7, 6, 1, 0, 0, 0, 0)	68	2101102010132200002000
4053	7	11	70000	2	192(35,22,	6, 6, 1, 0, 0, 0, 0)	68	2101102010132200003000
4054	7	11	70000	2	48(32,16,10,	4, 2, 0, 0, 0, 0, 0)	68	1102102010122100002000
4055	7	11	70000	2	96(33,18,	9, 4, 2, 0, 0, 0, 01	68	1102102010122100003000
4056	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 01	70	2101103020132200002000
4057	7	11	70000	2	576(37,25,	6, 5, 1, 0, 0, 0, 01	70	2101103020132200003000
4058	7	11	70000	2	192(34,19,10,	3, 2, 0, 0, 0, 0, 01	70	1102103020122100002000
4059	7	11	70000	2	288(35,21,	9, 3, 2, 0, 0, 0, 0)	70	1102103020122100003000
4060	7	11	70000	2	96(35,21,	8, 5, 1, 0, 0, 0, 0)	70	3101202010122200002000
4061	7	11	70000	2	192(36,23,	7, 5, 1, 0, 0, 0, 0)	70	3101202010122200003000
4062	7	11	70000	2	96(36,23,	7, 5, 1, 0, 0, 0, 01	70	1201203010123200002000
4063	7	11	70000	2	144(37,25,	6, 5, 1, 0, 0, 0, 0)	70	1201203010123200003000
4064	7	11	70000	2	96(32,16,	9, 6, 1, 0, 0, 0, 01	68	3102101020122100001000
4065	7	11	70000	2	384(34,20,	7, 6, 1, 0, 0, 0, 0)	68	3102101020122100002000
4066	7	11	70000	2	384(35,22,	6, 6, 1, 0, 0, 0, 01	68	3102101020122100003000
4067	7	11	70000	2	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	3102102030122100001000
4068	7	11	70000	2	768(36,23,	7, 5, 1, 0, 0, 0, 0)	70	3102102030122100002000
4069	7	11	70000	2	768(37,25,	6, 5, 1, 0, 0, 0, 0)	70	3102102030122100003000
4070	7	11	70000	2	96(34,20,	7, 6, 1, 0, 0, 0, 0)	68	3102102010122100002000
4071	7	11	70000	2	192(35,22,	6, 6, 1, 0, 0, 0, 01	68	3102102010122100003000
4072	7	11	70000	2	384(36,23,	7, 5, 1, 0, 0, 0, 01	70	3102103020122100002000
4073	7	11	70000	2	576(37,25,	6, 5, 1, 0, 0, 0, 0)	70	3102103020122100003000
4074	7	11	70000	2	96(35,21,	8, 5, 1, 0, 0, 0, 01	70	2102202010132100002000
4075	7	11	70000	2	192(36,23,	7, 5, 1, 0, 0, 0, 0)	70	2102202010132100003000
4076	7	11	70000	2	288(37,25,	6, 5, 1, 0, 0, 0, 01	70	2202201030113100003000
4077	7	11	70000	2	96(34,19,	9, 5, 1, 0, 0, 0, 01	70	2202201030113100001000

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COEF	TERM	GRAPH MATRIX
4078	7	11	70000	2	336(36,23,7,5,1,0,0,0,0,0)	70	220220103011310002000	
4079	7	11	70000	2	480(38,27,5,5,1,0,0,0,0,0)	70	220220202011310003000	
4080	7	11	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	220220202011310001000	
4081	7	11	70000	2	480(37,25,6,5,1,0,0,0,0,0)	70	220220202011310002000	
4082	7	11	70000	2	144(37,25,6,5,1,0,0,0,0,0)	70	220220301011310003000	
4083	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	220220301011310002000	
4084	7	11	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	110210122032010000200	
4085	7	11	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	110210122032010000300	
4086	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	110210233021020000200	
4087	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	110210233021020000300	
4088	7	11	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	110210233021020000100	
4089	7	11	70000	1	192(35,22,6,6,1,0,0,0,0,0)	68	110320122021010000300	
4090	7	11	70000	1	48(32,16,9,6,1,0,0,0,0,0)	68	110320122021010000100	
4091	7	11	70000	1	192(34,20,7,6,1,0,0,0,0,0)	68	110320122021010000200	
4092	7	11	70000	1	336(36,23,7,5,1,0,0,0,0,0)	70	120320123021010000200	
4093	7	11	70000	1	336(37,25,6,5,1,0,0,0,0,0)	70	120320123021010000300	
4094	7	11	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	120320123021010000100	
4095	7	11	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	120120121023010000300	
4096	7	11	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	120120121023010000200	
4097	7	11	70000	1	24(32,16,10,4,2,0,0,0,0,0)	68	120120121023010000300	
4098	7	11	70000	1	48(33,18,9,4,2,0,0,0,0,0)	68	120120121021010000200	
4099	7	11	70000	1	96(35,21,8,5,1,0,0,0,0,0)	70	120120121032020000200	
4100	7	11	70000	1	144(36,23,7,5,1,0,0,0,0,0)	70	120120121032020000300	
4101	7	11	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	120210123032010000200	
4102	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	120210123032010000300	
4103	7	11	70000	1	384(38,27,5,5,1,0,0,0,0,0)	70	120210232021020000300	
4104	7	11	70000	1	96(35,21,8,5,1,0,0,0,0,0)	70	120210232021020000100	
4105	7	11	70000	1	384(37,25,6,5,1,0,0,0,0,0)	70	120210232021020000200	
4106	7	11	70000	1	192(35,22,6,6,1,0,0,0,0,0)	68	120230121012010000300	
4107	7	11	70000	1	48(32,16,9,6,1,0,0,0,0,0)	68	120230121012010000100	
4108	7	11	70000	1	192(34,20,7,6,1,0,0,0,0,0)	68	120230121012010000200	
4109	7	11	70000	1	240(36,23,7,5,1,0,0,0,0,0)	70	120230121021020000300	
4110	7	11	70000	1	48(33,17,10,5,1,0,0,0,0,0)	70	120230121021020000100	
4111	7	11	70000	1	240(35,21,8,5,1,0,0,0,0,0)	70	120230121021020000200	
4112	7	11	70000	1	24(32,16,10,4,2,0,0,0,0,0)	68	120210121012010000200	
4113	7	11	70000	1	48(33,18,9,4,2,0,0,0,0,0)	68	120210121012010000300	
4114	7	11	70000	1	96(35,21,8,5,1,0,0,0,0,0)	70	120210121023020000200	
4115	7	11	70000	1	144(36,23,7,5,1,0,0,0,0,0)	70	120210121023020000300	
4116	7	11	70000	1	48(34,20,7,6,1,0,0,0,0,0)	68	120210121032010000200	
4117	7	11	70000	1	96(35,22,6,6,1,0,0,0,0,0)	68	120210121032010000300	
4118	7	11	70000	1	240(36,23,7,5,1,0,0,0,0,0)	70	120320121012020000300	
4119	7	11	70000	1	48(33,17,10,5,1,0,0,0,0,0)	70	120320121012020000100	
4120	7	11	70000	1	240(35,21,8,5,1,0,0,0,0,0)	70	120320121012020000200	
4121	7	11	70000	1	192(35,22,6,6,1,0,0,0,0,0)	68	120320121021010000300	
4122	7	11	70000	1	48(32,16,9,6,1,0,0,0,0,0)	68	120320121021010000100	
4123	7	11	70000	1	192(34,20,7,6,1,0,0,0,0,0)	68	120320121021010000200	
4124	7	11	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	130120122023010000200	
4125	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	130120122023010000300	
4126	7	11	70000	1	48(34,19,10,3,2,0,0,0,0,0)	70	130120122021010000200	
4127	7	11	70000	1	96(35,21,8,5,1,0,0,0,0,0)	70	130120122021010000300	
4128	7	11	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	130120231012020000100	
4129	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	130120231012020000200	
4130	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	130120231012020000300	
4131	7	11	70000	1	336(37,25,6,5,1,0,0,0,0,0)	70	130230122012010000300	
4132	7	11	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	130230122012010000100	
4133	7	11	70000	1	336(36,23,7,5,1,0,0,0,0,0)	70	130230122012010000200	
4134	7	11	70000	1	48(34,19,10,3,2,0,0,0,0,0)	70	130210122012010000200	
4135	7	11	70000	1	96(35,21,8,5,1,0,0,0,0,0)	70	130210122012010000300	
4136	7	11	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	130210122032010000200	
4137	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	130210122032010000300	
4138	7	11	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	130210231021020000100	
4139	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	130210231021020000200	
4140	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	130210231021020000300	
4141	7	11	70000	1	336(37,25,6,5,1,0,0,0,0,0)	70	130320122021010000300	
4142	7	11	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	130320122021010000100	
4143	7	11	70000	1	384(36,23,7,5,1,0,0,0,0,0)	70	130320122021010000200	
4144	7	11	70000	1	24(30,12,12,4,2,0,0,0,0,0)	68	112120211020100000100	
4145	7	11	70000	1	96(32,16,10,4,2,0,0,0,0,0)	68	112120211020100000200	
4146	7	11	70000	1	96(33,18,9,4,2,0,0,0,0,0)	68	112120211020100000300	
4147	7	11	70000	1	48(32,15,12,3,2,0,0,0,0,0)	70	112120211030200000100	
4148	7	11	70000	1	192(34,19,10,3,2,0,0,0,0,0)	70	112120211030200000200	
4149	7	11	70000	1	192(35,21,8,5,1,0,0,0,0,0)	70	112120211030200000300	
4150	7	11	70000	1	48(33,17,10,5,1,0,0,0,0,0)	70	112120322020100000100	
4151	7	11	70000	1	192(35,21,8,5,1,0,0,0,0,0)	70	112120322020100000200	
4152	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	112120322020100000300	
4153	7	11	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	112120231030200000100	
4154	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	112120231030200000200	
4155	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	112120231030200000300	
4156	7	11	70000	1	288(35,21,9,3,2,0,0,0,0,0)	70	112230211020100000300	
4157	7	11	70000	1	96(32,15,12,3,2,0,0,0,0,0)	70	112230211020100000100	
4158	7	11	70000	1	336(34,19,10,3,2,0,0,0,0,0)	70	112230211020100000200	
4159	7	11	70000	1	240(39,29,4,5,1,0,0,0,0,0)	70	112230122030200000300	
4160	7	11	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	112230122030200000100	
4161	7	11	70000	1	288(38,27,5,5,1,0,0,0,0,0)	70	112230122030200000200	
4162	7	11	70000	1	288(37,25,6,5,1,0,0,0,0,0)	70	112230213020100000300	
4163	7	11	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	112230213020100000100	
4164	7	11	70000	1	336(36,23,7,5,1,0,0,0,0,0)	70	112230213020100000200	
4165	7	11	70000	1	24(30,12,12,4,2,0,0,0,0,0)	68	112210211010200000100	
4166	7	11	70000	1	96(32,16,10,4,2,0,0,0,0,0)	68	112210211010200000200	
4167	7	11	70000	1	96(33,18,9,4,2,0,0,0,0,0)	68	112210211010200000300	
4168	7	11	70000	1	24(30,12,12,4,2,0,0,0,0,0)	68	112210211020100000100	
4169	7	11	70000	1	96(32,16,10,4,2,0,0,0,0,0)	68	112210211020100000200	
4170	7	11	70000	1	96(33,18,9,4,2,0,0,0,0,0)	68	112210211020100000300	
4171	7	11	70000	1	48(32,15,12,3,2,0,0,0,0,0)	70	112210211020300000100	
4172	7	11	70000	1	192(34,19,10,3,2,0,0,0,0,0)	70	112210211020300000200	
4173	7	11	70000	1	192(35,21,8,5,1,0,0,0,0,0)	70	112210211020300000300	
4174	7	11	70000	1	48(32,15,12,3,2,0,0,0,0,0)	70	112210211030200000100	
4175	7	11	70000	1</				

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
4181	7	11	70000	1	192(35,21,8,5,1,0,0,0,0,0)	70	112710322020100000200	
4182	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	112710322020100000300	
4183	7	11	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	112710231020300000100	
4184	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	112710231020300000200	
4185	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	112710231020300000300	
4186	7	11	70000	1	48(34,19,9,5,1,0,0,0,0,0)	70	112710231030200000100	
4187	7	11	70000	1	192(36,23,7,5,1,0,0,0,0,0)	70	112710231030200000200	
4188	7	11	70000	1	192(37,25,6,5,1,0,0,0,0,0)	70	112710231030200000300	
4189	7	11	70000	1	288(35,21,9,3,2,0,0,0,0,0)	70	112720211010200000300	
4190	7	11	70000	1	96(32,15,12,3,2,0,0,0,0,0)	70	112720211010200000100	
4191	7	11	70000	1	336(34,19,10,3,2,0,0,0,0,0)	70	112720211010200000200	
4192	7	11	70000	1	288(35,21,9,3,2,0,0,0,0,0)	70	112720211020100000300	
4193	7	11	70000	1	96(32,15,12,3,2,0,0,0,0,0)	70	112720211020100000100	
4194	7	11	70000	1	336(34,19,10,3,2,0,0,0,0,0)	70	112720211020100000200	
4195	7	11	70000	1	240(39,29,4,5,1,0,0,0,0,0)	70	112730122020300000300	
4196	7	11	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	112730122020300000100	
4197	7	11	70000	1	288(38,27,5,5,1,0,0,0,0,0)	70	112730122020300000200	
4198	7	11	70000	1	240(39,29,4,5,1,0,0,0,0,0)	70	112730122030200000300	
4199	7	11	70000	1	96(36,23,7,5,1,0,0,0,0,0)	70	112730122030200000100	
4200	7	11	70000	1	336(38,27,5,5,1,0,0,0,0,0)	70	112730122030200000200	
4201	7	11	70000	1	288(37,25,6,5,1,0,0,0,0,0)	70	112730213010200000300	
4202	7	11	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	112730213010200000100	
4203	7	11	70000	1	336(36,23,7,5,1,0,0,0,0,0)	70	112730213010200000200	
4204	7	11	70000	1	288(37,25,6,5,1,0,0,0,0,0)	70	112320213020100000300	
4205	7	11	70000	1	96(34,19,9,5,1,0,0,0,0,0)	70	112320213020100000100	
4206	7	11	70000	1	336(36,23,7,5,1,0,0,0,0,0)	70	112320213020100000200	
4207	7	11	70000	2	192(36,23,6,7,0,0,0,0,0,0)	70	210300132013220000100	
4208	7	11	70000	2	576(38,27,4,7,0,0,0,0,0,0)	70	210300132013220000200	
4209	7	11	70000	2	480(39,29,3,7,0,0,0,0,0,0)	70	210300132013220000300	
4210	7	11	70000	4	384(34,19,10,3,2,0,0,0,0,0)	70	120200232012101000100	
4211	7	11	70000	4	1152(36,23,8,3,2,0,0,0,0,0)	70	120200232012101000200	
4212	7	11	70000	4	768(37,25,7,3,2,0,0,0,0,0)	70	120200232012101000300	
4213	7	11	70000	4	1152(38,27,6,3,2,0,0,0,0,0)	70	120300123012102000300	
4214	7	11	70000	4	576(35,21,9,3,2,0,0,0,0,0)	70	120300123012102000100	
4215	7	11	70000	4	1536(37,25,7,3,2,0,0,0,0,0)	70	120300123012102000200	
4216	7	11	70000	4	1152(35,21,9,3,2,0,0,0,0,0)	70	120300232012101000100	
4217	7	11	70000	4	2880(37,25,7,3,2,0,0,0,0,0)	70	120300232012101000200	
4218	7	11	70000	4	2112(38,27,6,3,2,0,0,0,0,0)	70	120300232012101000300	
4219	7	11	70000	4	96(32,16,10,4,2,0,0,0,0,0)	68	220100222011101000100	
4220	7	11	70000	4	384(34,20,8,4,2,0,0,0,0,0)	68	220100222011101000200	
4221	7	11	70000	4	384(35,22,7,4,2,0,0,0,0,0)	68	220100222011101000300	
4222	7	11	70000	4	768(34,20,8,4,2,0,0,0,0,0)	68	220200222011101000100	
4223	7	11	70000	4	2400(36,24,6,4,2,0,0,0,0,0)	68	220200222011101000200	
4224	7	11	70000	4	1728(37,26,5,4,2,0,0,0,0,0)	68	220200222011101000300	
4225	7	11	70000	4	1152(35,22,7,4,2,0,0,0,0,0)	68	220300222011101000100	
4226	7	11	70000	4	2880(37,26,5,4,2,0,0,0,0,0)	68	220300222011101000200	
4227	7	11	70000	4	2112(38,28,4,4,2,0,0,0,0,0)	68	220300222011101000300	
4228	7	11	70000	4	192(32,15,12,3,2,0,0,0,0,0)	70	320100212012101000100	
4229	7	11	70000	4	768(34,19,10,3,2,0,0,0,0,0)	70	320100212012101000200	
4230	7	11	70000	4	768(35,21,9,3,2,0,0,0,0,0)	70	320100212012101000300	
4231	7	11	70000	4	1536(34,19,10,3,2,0,0,0,0,0)	70	320200212012101000100	
4232	7	11	70000	4	4800(36,23,8,3,2,0,0,0,0,0)	70	320200212012101000200	
4233	7	11	70000	4	3648(37,25,7,3,2,0,0,0,0,0)	70	320200212012101000300	
4234	7	11	70000	4	2304(35,21,9,3,2,0,0,0,0,0)	70	320300212012101000100	
4235	7	11	70000	4	5952(37,25,7,3,2,0,0,0,0,0)	70	320300212012101000200	
4236	7	11	70000	4	4032(38,27,6,3,2,0,0,0,0,0)	70	320300212012101000300	
4237	7	11	70000	4	192(32,18,4,10,0,0,0,0,0,0)	70	220200111010010022010	
4238	7	11	70000	4	384(34,20,6,8,0,0,0,0,0,0)	70	220200111010010033020	
4239	7	11	70000	4	192(34,21,4,9,0,0,0,0,0,0)	70	220300111010020022010	
4240	7	11	70000	4	384(36,23,6,7,0,0,0,0,0,0)	70	220300111010020033020	
4241	7	11	70000	4	192(35,23,3,9,0,0,0,0,0,0)	70	220200111020020022010	
4242	7	11	70000	4	384(37,25,5,7,0,0,0,0,0,0)	70	220200111020020033020	
4243	7	11	70000	4	384(34,21,4,9,0,0,0,0,0,0)	70	220300111020010022010	
4244	7	11	70000	4	768(36,23,6,7,0,0,0,0,0,0)	70	220300111020010033020	
4245	7	11	70000	4	768(34,20,6,8,0,0,0,0,0,0)	70	320200121010010032010	
4246	7	11	70000	4	768(35,21,7,7,0,0,0,0,0,0)	70	230200112010010032020	
4247	7	11	70000	4	768(36,23,6,7,0,0,0,0,0,0)	70	320300121010020032010	
4248	7	11	70000	4	768(35,21,7,7,0,0,0,0,0,0)	70	230200221010010032010	
4249	7	11	70000	4	768(37,25,5,7,0,0,0,0,0,0)	70	320200121020020032010	
4250	7	11	70000	4	1536(36,23,6,7,0,0,0,0,0,0)	70	320300121020010032010	
4251	7	11	70000	4	96(34,20,6,8,0,0,0,0,0,0)	70	330100211010020022010	
4252	7	11	70000	4	768(34,20,6,8,0,0,0,0,0,0)	70	330200211010010022010	
4253	7	11	70000	4	384(36,23,6,7,0,0,0,0,0,0)	70	330200211010030022010	
4254	7	11	70000	4	768(36,23,6,7,0,0,0,0,0,0)	70	330300211010020022010	
4255	7	11	70000	4	960(37,25,5,7,0,0,0,0,0,0)	70	330200211020020022010	
4256	7	11	70000	4	1344(36,23,6,7,0,0,0,0,0,0)	70	330300211020010022010	
4257	7	11	70000	4	768(34,19,9,5,1,0,0,0,0,0)	70	220110101031020030200	
4258	7	11	70000	4	768(34,19,9,5,1,0,0,0,0,0)	70	120210101032010030200	
4259	7	11	70000	4	768(34,20,7,6,1,0,0,0,0,0)	68	220110101020201003020	
4260	7	11	70000	4	768(34,20,7,6,1,0,0,0,0,0)	68	120210101021020030200	
4261	7	11	70000	4	768(36,23,7,5,1,0,0,0,0,0)	70	230110102022010030200	
4262	7	11	70000	4	768(36,23,7,5,1,0,0,0,0,0)	70	130210102021020030200	
4263	7	11	70000	4	768(37,25,6,5,1,0,0,0,0,0)	70	220110202022010030200	
4264	7	11	70000	4	768(37,25,6,5,1,0,0,0,0,0)	70	120210202021020030200	
4265	7	11	70000	4	1536(36,23,7,5,1,0,0,0,0,0)	70	230110201022010030200	
4266	7	11	70000	4	1536(36,23,7,5,1,0,0,0,0,0)	70	130210201021020030200	
4267	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	230110201013020020100	
4268	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	130210201012030020100	
4269	7	11	70000	4	192(32,15,12,3,2,0,0,0,0,0)	70	230110201011020020100	
4270	7	11	70000	4	192(32,15,12,3,2,0,0,0,0,0)	70	130210201012010020100	
4271	7	11	70000	4	1344(34,19,9,5,1,0,0,0,0,0)	70	320210101012010030200	
4272	7	11	70000	4	1344(34,19,9,5,1,0,0,0,0,0)	70	220310101011020030200	
4273	7	11	70000	4	768(32,16,9,6,1,0,0,0,0,0)	68	320210101012010020100	
4274	7	11	70000	4	768(32,16,9,6,1,0,0,0,0,0)	68	220310101011020020100	
4275	7	11	70000	4	768(33,17,10,5,1,0,0,0,0,0)	70	320210101021020020100	
4276	7	11	70000	4	768(33,17,10,5,1,0,0,0,0,0)	70	220310101022010020100	
4277	7	11	70000					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
4284	7	11	70000	1	96(35,21,7,7,0,0,0,0,0,0)	70	120120301020230002010	
4285	7	11	70000	1	24(32,18,4,10,0,0,0,0,0,0)	70	2101102010102200001020	
4286	7	11	70000	1	24(32,18,4,10,0,0,0,0,0,0)	70	2101102010102200002010	
4287	7	11	70000	1	48(34,21,4,9,0,0,0,0,0,0)	70	2101102010102200002030	
4288	7	11	70000	1	48(34,21,4,9,0,0,0,0,0,0)	70	2101102010102200003020	
4289	7	11	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2101102010203300001020	
4290	7	11	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2101102010203300002010	
4291	7	11	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2101102010203300002030	
4292	7	11	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2101102010203300003020	
4293	7	11	70000	1	48(34,20,6,8,0,0,0,0,0,0)	70	2101103020102200001030	
4294	7	11	70000	1	96(35,22,5,8,0,0,0,0,0,0)	70	2101103020102200002020	
4295	7	11	70000	1	48(34,20,6,8,0,0,0,0,0,0)	70	2101103020102200003010	
4296	7	11	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	2102202010102300001020	
4297	7	11	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	2102202010102300001020	
4298	7	11	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	2102202010102300002030	
4299	7	11	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	2102202010102300003020	
4300	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2102202010203300001020	
4301	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2102202010203300002010	
4302	7	11	70000	1	48(35,21,7,7,0,0,0,0,0,0)	70	2201102020103200001030	
4303	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2201102020103200002020	
4304	7	11	70000	1	48(35,21,7,7,0,0,0,0,0,0)	70	2201102020103200003010	
4305	7	11	70000	1	144(36,23,6,7,0,0,0,0,0,0)	70	2201103010103200003020	
4306	7	11	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2201103010103200001020	
4307	7	11	70000	1	144(36,23,6,7,0,0,0,0,0,0)	70	2201103010103200002030	
4308	7	11	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2201103010103200002010	
4309	7	11	70000	1	96(35,21,7,7,0,0,0,0,0,0)	70	2201103010202300001020	
4310	7	11	70000	1	192(35,21,7,7,0,0,0,0,0,0)	70	2201103010202300002010	
4311	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2201103010103200001020	
4312	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2201103010103200002010	
4313	7	11	70000	1	48(34,21,4,9,0,0,0,0,0,0)	70	3101202010102200001020	
4314	7	11	70000	1	48(34,21,4,9,0,0,0,0,0,0)	70	3101202010102200002010	
4315	7	11	70000	1	96(36,24,4,8,0,0,0,0,0,0)	70	3101202010102200002030	
4316	7	11	70000	1	96(36,24,4,8,0,0,0,0,0,0)	70	3101202010102200003020	
4317	7	11	70000	1	144(36,23,6,7,0,0,0,0,0,0)	70	3101202010203300001020	
4318	7	11	70000	1	144(36,23,6,7,0,0,0,0,0,0)	70	3101202010203300002010	
4319	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	3101203020102200001030	
4320	7	11	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	3101203020102200002020	
4321	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	3101203020102200003010	
4322	7	11	70000	1	48(34,20,6,8,0,0,0,0,0,0)	70	3102102010102300001020	
4323	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	3102102010102300002030	
4324	7	11	70000	1	48(34,20,6,8,0,0,0,0,0,0)	70	3102102010102300002010	
4325	7	11	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	3102102010102300003020	
4326	7	11	70000	1	96(35,21,7,7,0,0,0,0,0,0)	70	3102102010203300001020	
4327	7	11	70000	1	96(35,21,7,7,0,0,0,0,0,0)	70	3102102010203300002010	
4328	7	11	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	3201203010103200001020	
4329	7	11	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	3201203010103200002010	
4330	7	11	70000	2	96(32,16,11,5,1,0,0,0,0,0)	70	210220201011010000220	
4331	7	11	70000	2	192(34,19,9,5,1,0,0,0,0,0)	70	210220201011010000330	
4332	7	11	70000	2	384(35,22,6,6,1,0,0,0,0,0)	68	210110201013220000030	
4333	7	11	70000	2	96(32,16,9,6,1,0,0,0,0,0)	68	210110201013220000010	
4334	7	11	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	210110201013220000020	
4335	7	11	70000	2	48(30,12,12,4,2,0,0,0,0,0)	68	110210201012210000010	
4336	7	11	70000	2	192(32,16,10,4,2,0,0,0,0,0)	68	110210201012210000020	
4337	7	11	70000	2	192(33,18,9,4,2,0,0,0,0,0)	68	110210201012210000030	
4338	7	11	70000	2	1056(37,25,6,5,1,0,0,0,0,0)	70	210110302013220000030	
4339	7	11	70000	2	384(34,19,9,5,1,0,0,0,0,0)	70	210110302013220000010	
4340	7	11	70000	2	1248(36,23,7,5,1,0,0,0,0,0)	70	210110302013220000020	
4341	7	11	70000	2	576(35,21,9,3,2,0,0,0,0,0)	70	110210302012210000030	
4342	7	11	70000	2	192(32,16,10,4,2,0,0,0,0,0)	70	110210302012210000010	
4343	7	11	70000	2	672(34,19,10,3,2,0,0,0,0,0)	70	110210302012210000020	
4344	7	11	70000	2	96(33,17,10,5,1,0,0,0,0,0)	70	310120201012220000010	
4345	7	11	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	310120201012220000020	
4346	7	11	70000	2	384(36,23,7,5,1,0,0,0,0,0)	70	310120201012220000030	
4347	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	120120301012320000030	
4348	7	11	70000	2	48(34,19,9,5,1,0,0,0,0,0)	70	120120301012320000010	
4349	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	120120301012320000020	
4350	7	11	70000	2	96(32,16,9,6,1,0,0,0,0,0)	68	310210102012210000010	
4351	7	11	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	310210102012210000020	
4352	7	11	70000	2	384(35,22,6,6,1,0,0,0,0,0)	68	310210102012210000030	
4353	7	11	70000	2	384(34,19,9,5,1,0,0,0,0,0)	70	310210203012210000010	
4354	7	11	70000	2	1248(36,23,7,5,1,0,0,0,0,0)	70	310210203012210000020	
4355	7	11	70000	2	1056(37,25,6,5,1,0,0,0,0,0)	70	310210203012210000030	
4356	7	11	70000	2	96(32,16,9,6,1,0,0,0,0,0)	68	310210201012210000010	
4357	7	11	70000	2	384(34,20,7,6,1,0,0,0,0,0)	68	310210201012210000020	
4358	7	11	70000	2	384(35,22,6,6,1,0,0,0,0,0)	68	310210201012210000030	
4359	7	11	70000	2	384(34,19,9,5,1,0,0,0,0,0)	70	310210302012210000010	
4360	7	11	70000	2	1344(36,23,7,5,1,0,0,0,0,0)	70	310210302012210000020	
4361	7	11	70000	2	1056(37,25,6,5,1,0,0,0,0,0)	70	310210302012210000030	
4362	7	11	70000	2	96(33,17,10,5,1,0,0,0,0,0)	70	210220201013210000010	
4363	7	11	70000	2	384(35,21,8,5,1,0,0,0,0,0)	70	210220201013210000020	
4364	7	11	70000	2	384(36,23,7,5,1,0,0,0,0,0)	70	210220201013210000030	
4365	7	11	70000	2	48(34,19,9,5,1,0,0,0,0,0)	70	220220103011310000010	
4366	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	220220103011310000020	
4367	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	220220103011310000030	
4368	7	11	70000	2	480(38,27,5,5,1,0,0,0,0,0)	70	220220202011310000030	
4369	7	11	70000	2	96(35,21,8,5,1,0,0,0,0,0)	70	220220202011310000010	
4370	7	11	70000	2	480(37,25,6,5,1,0,0,0,0,0)	70	220220202011310000020	
4371	7	11	70000	2	48(34,19,9,5,1,0,0,0,0,0)	70	220220301011310000010	
4372	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	220220301011310000020	
4373	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	220220301011310000030	
4374	7	11	70000	2	24(32,16,8,8,0,0,0,0,0,0)	70	110210201012200000220	
4375	7	11	70000	2	48(34,20,6,8,0,0,0,0,0,0)	70	110210201012200000330	
4376	7	11	70000	2	96(35,21,7,7,0,0,0,0,0,0)	70	1102202010122000000320	
4377	7	11	70000	2	96(35,21,7,7,0,0,0,0,0,0)	70	1102103020122000000320	
4378	7	11	70000	12	2304(32,16,9,6,1,0,0,0,0,0)	68	3201201010210100002010	
4379	7	11	70000	12	2304(32,16,9,6,1,0,0,0,0,0)	68	3101202010210100002010	
4380	7	11	70000					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
4387	7	11	70000	12	2304(35,21,8,5,1,0,0,0,0,0)	70	230220102011010002020	
4388	7	11	70000	12	1152(34,19,9,5,1,0,0,0,0,0)	70	210220302011010003010	
4389	7	11	70000	12	2304(35,21,8,5,1,0,0,0,0,0)	70	220220202011010003010	
4390	7	11	70000	12	2304(36,23,7,5,1,0,0,0,0,0)	70	220220202011010002020	
4391	7	11	70000	12	9216(34,19,9,5,1,0,0,0,0,0)	70	330120201021010002010	
4392	7	11	70000	12	9216(34,19,9,5,1,0,0,0,0,0)	70	320120301021010002010	
4393	7	11	70000	12	4608(34,20,7,6,1,0,0,0,0,0)	68	230220201011010002010	
4394	7	11	70000	12	4608(34,20,7,6,1,0,0,0,0,0)	68	220220301011010002010	
4395	7	11	70000	12	5760(36,23,7,5,1,0,0,0,0,0)	70	230220201011010003020	
4396	7	11	70000	12	5760(36,23,7,5,1,0,0,0,0,0)	70	220220301011010003020	
4397	7	11	70000	12	2304(34,19,9,5,1,0,0,0,0,0)	70	130230201012010002010	
4398	7	11	70000	12	2304(34,19,9,5,1,0,0,0,0,0)	70	120230301012010002010	
4399	7	11	70000	12	576(32,15,12,3,2,0,0,0,0,0)	70	130120201021010002010	
4400	7	11	70000	12	576(32,15,12,3,2,0,0,0,0,0)	70	120120301021010002010	
4401	7	11	70000	12	1152(33,17,10,5,1,0,0,0,0,0)	70	220220101031010002010	
4402	7	11	70000	12	1152(33,17,10,5,1,0,0,0,0,0)	70	210220201031010002010	
4403	7	11	70000	6	2304(34,19,10,3,2,0,0,0,0,0)	70	231220112100200000001	
4404	7	11	70000	6	7488(36,23,8,3,2,0,0,0,0,0)	70	231220112100200000002	
4405	7	11	70000	6	6048(37,25,7,3,2,0,0,0,0,0)	70	231220112100200000003	
4406	7	11	70000	6	3456(35,21,9,3,2,0,0,0,0,0)	70	231220112100300000001	
4407	7	11	70000	6	9504(37,25,7,3,2,0,0,0,0,0)	70	231220112100300000002	
4408	7	11	70000	6	6624(38,27,6,3,2,0,0,0,0,0)	70	231220112100300000003	
4409	7	11	70000	6	1152(34,19,10,3,2,0,0,0,0,0)	70	231220112100100000002	
4410	7	11	70000	6	1152(35,21,9,3,2,0,0,0,0,0)	70	231220112100100000003	
4411	7	11	70000	6	288(32,15,12,3,2,0,0,0,0,0)	70	231220112100100000001	
4412	7	11	70000	6	2304(34,19,10,3,2,0,0,0,0,0)	70	121320212100200000001	
4413	7	11	70000	6	7488(36,23,8,3,2,0,0,0,0,0)	70	121320212100200000002	
4414	7	11	70000	6	5760(37,25,7,3,2,0,0,0,0,0)	70	121320212100200000003	
4415	7	11	70000	6	3456(35,21,9,3,2,0,0,0,0,0)	70	121320212100300000001	
4416	7	11	70000	6	9216(37,25,7,3,2,0,0,0,0,0)	70	121320212100300000002	
4417	7	11	70000	6	6912(38,27,6,3,2,0,0,0,0,0)	70	121320212100300000003	
4418	7	11	70000	6	1152(34,19,10,3,2,0,0,0,0,0)	70	121320212100100000002	
4419	7	11	70000	6	1152(35,21,9,3,2,0,0,0,0,0)	70	121320212100100000003	
4420	7	11	70000	6	288(32,15,12,3,2,0,0,0,0,0)	70	121320212100100000001	
4421	7	11	70000	6	1152(34,20,8,4,2,0,0,0,0,0)	68	222220111100200000001	
4422	7	11	70000	6	5744(36,24,6,4,2,0,0,0,0,0)	68	222220111100200000002	
4423	7	11	70000	6	2880(37,26,5,4,2,0,0,0,0,0)	68	222220111100200000003	
4424	7	11	70000	6	1728(35,22,7,4,2,0,0,0,0,0)	68	222220111100300000001	
4425	7	11	70000	6	4608(37,26,5,4,2,0,0,0,0,0)	68	222220111100300000002	
4426	7	11	70000	6	3456(38,28,4,4,2,0,0,0,0,0)	68	222220111100300000003	
4427	7	11	70000	6	576(34,20,8,4,2,0,0,0,0,0)	68	222220111100100000002	
4428	7	11	70000	6	576(35,22,7,4,2,0,0,0,0,0)	68	222220111100100000003	
4429	7	11	70000	6	144(32,16,10,4,2,0,0,0,0,0)	68	222220111100100000001	
4430	7	11	70000	12	2304(34,19,10,3,2,0,0,0,0,0)	70	231220112100200000100	
4431	7	11	70000	12	9216(36,23,8,3,2,0,0,0,0,0)	70	231220112100200000200	
4432	7	11	70000	12	9216(37,25,7,3,2,0,0,0,0,0)	70	121320212100300000200	
4433	7	11	70000	12	2304(35,21,9,3,2,0,0,0,0,0)	70	231220112100300000100	
4434	7	11	70000	12	9216(37,25,7,3,2,0,0,0,0,0)	70	231220112100300000200	
4435	7	11	70000	12	9216(38,27,6,3,2,0,0,0,0,0)	70	231220112100300000300	
4436	7	11	70000	12	576(32,15,12,3,2,0,0,0,0,0)	70	231220112100100000100	
4437	7	11	70000	12	2304(34,19,10,3,2,0,0,0,0,0)	70	121320212100200000100	
4438	7	11	70000	12	2304(35,21,9,3,2,0,0,0,0,0)	70	121320212100300000100	
4439	7	11	70000	12	1152(34,20,8,4,2,0,0,0,0,0)	68	222220111100200000100	
4440	7	11	70000	12	2304(36,24,6,4,2,0,0,0,0,0)	68	222220111100200000200	
4441	7	11	70000	12	4608(37,26,5,4,2,0,0,0,0,0)	68	222220111100300000200	
4442	7	11	70000	12	1152(35,22,7,4,2,0,0,0,0,0)	68	222220111100300000100	
4443	7	11	70000	12	2304(38,28,4,4,2,0,0,0,0,0)	68	222220111100300000300	
4444	7	11	70000	12	144(32,16,10,4,2,0,0,0,0,0)	68	222220111100100000100	
4445	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	132120211000302000100	
4446	7	11	70000	4	1536(36,23,7,5,1,0,0,0,0,0)	70	132120211000302000200	
4447	7	11	70000	4	1536(37,25,6,5,1,0,0,0,0,0)	70	132120211000302000300	
4448	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	121120321000302000100	
4449	7	11	70000	4	1536(36,23,7,5,1,0,0,0,0,0)	70	121120321000302000200	
4450	7	11	70000	4	1536(37,25,6,5,1,0,0,0,0,0)	70	121120321000302000300	
4451	7	11	70000	4	192(32,16,9,6,1,0,0,0,0,0)	68	132120211000201000100	
4452	7	11	70000	4	768(34,20,7,6,1,0,0,0,0,0)	68	132120211000201000200	
4453	7	11	70000	4	768(35,22,6,6,1,0,0,0,0,0)	68	132120211000201000300	
4454	7	11	70000	4	192(32,16,9,6,1,0,0,0,0,0)	68	121120321000201000100	
4455	7	11	70000	4	768(34,20,7,6,1,0,0,0,0,0)	68	121120321000201000200	
4456	7	11	70000	4	768(35,22,6,6,1,0,0,0,0,0)	68	121120321000201000300	
4457	7	11	70000	4	96(30,12,12,4,2,0,0,0,0,0)	68	112120211000201000100	
4458	7	11	70000	4	384(32,16,10,4,2,0,0,0,0,0)	68	112120211000201000200	
4459	7	11	70000	4	384(33,18,9,4,2,0,0,0,0,0)	68	112120211000201000300	
4460	7	11	70000	4	192(32,15,12,3,2,0,0,0,0,0)	70	112120211000302000100	
4461	7	11	70000	4	768(34,19,10,3,2,0,0,0,0,0)	70	112120211000302000200	
4462	7	11	70000	4	768(35,21,9,3,2,0,0,0,0,0)	70	112120211000302000300	
4463	7	11	70000	4	96(30,12,12,4,2,0,0,0,0,0)	68	112210211000201000100	
4464	7	11	70000	4	384(32,16,10,4,2,0,0,0,0,0)	68	112210211000201000200	
4465	7	11	70000	4	384(33,18,9,4,2,0,0,0,0,0)	68	112210211000201000300	
4466	7	11	70000	4	192(32,15,12,3,2,0,0,0,0,0)	70	112210211000302000100	
4467	7	11	70000	4	768(34,19,10,3,2,0,0,0,0,0)	70	112210211000302000200	
4468	7	11	70000	4	768(35,21,9,3,2,0,0,0,0,0)	70	112210211000302000300	
4469	7	11	70000	4	768(34,19,9,5,1,0,0,0,0,0)	70	132230211000201000100	
4470	7	11	70000	4	2496(36,23,7,5,1,0,0,0,0,0)	70	132230211000201000200	
4471	7	11	70000	4	2112(37,25,6,5,1,0,0,0,0,0)	70	132230211000201000300	
4472	7	11	70000	4	768(34,19,9,5,1,0,0,0,0,0)	70	121230321000201000100	
4473	7	11	70000	4	2496(36,23,7,5,1,0,0,0,0,0)	70	121230321000201000200	
4474	7	11	70000	4	2112(37,25,6,5,1,0,0,0,0,0)	70	121230321000201000300	
4475	7	11	70000	4	1152(35,21,9,3,2,0,0,0,0,0)	70	112230211000201000100	
4476	7	11	70000	4	384(32,15,12,3,2,0,0,0,0,0)	70	112230211000201000200	
4477	7	11	70000	4	1344(34,19,10,3,2,0,0,0,0,0)	70	112230211000201000300	
4478	7	11	70000	4	1152(35,21,9,3,2,0,0,0,0,0)	70	112320211000201000100	
4479	7	11	70000	4	384(32,15,12,3,2,0,0,0,0,0)	70	112320211000201000200	
4480	7	11	70000	4	1344(34,19,10,3,2,0,0,0,0,0)	70	112320211000201000300	
4481	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	132210211000302000100	
4482	7	11	70000	4	1536(36,23,7,5,1,			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COOE	TERM	GRAPH MATRIX
4490	7	11	70000	4	192(32,16,	9, 6, 1, 0, 0, 0, 0)	68	121210321000201000100
4491	7	11	70000	4	768(34,20,	7, 6, 1, 0, 0, 0, 0)	68	121210321000201000200
4492	7	11	70000	4	768(35,22,	6, 6, 1, 0, 0, 0, 0)	68	121210321000201000300
4493	7	11	70000	4	768(34,19,	9, 5, 1, 0, 0, 0, 0)	70	132320211000201000100
4494	7	11	70000	4	2496(36,23,	7, 5, 1, 0, 0, 0, 0)	70	132320211000201000200
4495	7	11	70000	4	1920(37,25,	6, 5, 1, 0, 0, 0, 0)	70	132320211000201000300
4496	7	11	70000	4	768(34,19,	9, 5, 1, 0, 0, 0, 0)	70	121320321000201000100
4497	7	11	70000	4	2496(36,23,	7, 5, 1, 0, 0, 0, 0)	70	121320321000201000200
4498	7	11	70000	4	1920(37,25,	6, 5, 1, 0, 0, 0, 0)	70	121320321000201000300
4499	7	11	70000	2	24(34,20,	6, 8, 0, 0, 0, 0, 0)	70	110122122002000000202
4500	7	11	70000	2	96(36,24,	4, 8, 0, 0, 0, 0, 0)	70	110122122003000000203
4501	7	11	70000	2	48(36,24,	4, 8, 0, 0, 0, 0, 0)	70	110122122003000000302
4502	7	11	70000	4	96(32,15,11,	5, 1, 0, 0, 0, 0, 0)	70	211200221000010000221
4503	7	11	70000	4	192(34,19,	9, 5, 1, 0, 0, 0, 0)	70	211300221000010000231
4504	7	11	70000	8	768(30,12,12,	4, 2, 0, 0, 0, 0, 0)	68	120210121100200001001
4505	7	11	70000	8	768(32,15,12,	3, 2, 0, 0, 0, 0, 0)	70	120210121100300001002
4506	7	11	70000	8	768(33,17,11,	3, 2, 0, 0, 0, 0, 0)	70	120210121100200002002
4507	7	11	70000	8	1536(32,15,12,	3, 2, 0, 0, 0, 0, 0)	70	120210121100300002001
4508	7	11	70000	8	1536(32,16,	9, 6, 1, 0, 0, 0, 0)	68	320210121100200001001
4509	7	11	70000	8	1536(34,19,	9, 5, 1, 0, 0, 0, 0)	70	320210121100300001002
4510	7	11	70000	8	1536(35,21,	8, 5, 1, 0, 0, 0, 0)	70	320210121100200002002
4511	7	11	70000	8	3072(34,19,	9, 5, 1, 0, 0, 0, 0)	70	320210121100300002001
4512	7	11	70000	8	1536(33,17,10,	5, 1, 0, 0, 0, 0, 0)	70	220220131100200001001
4513	7	11	70000	8	768(34,19,	9, 5, 1, 0, 0, 0, 0)	70	330210122100100001002
4514	7	11	70000	8	5760(34,19,	9, 5, 1, 0, 0, 0, 0)	70	330210122100200001001
4515	7	11	70000	8	1536(33,17,10,	5, 1, 0, 0, 0, 0, 0)	70	210220132100200001001
4516	7	11	70000	8	2688(36,23,	7, 5, 1, 0, 0, 0, 0)	70	230220112100300002001
4517	7	11	70000	8	1536(34,20,	7, 6, 1, 0, 0, 0, 0)	68	230220112100200001001
4518	7	11	70000	8	1920(37,25,	6, 5, 1, 0, 0, 0, 0)	70	230220112100200002002
4519	7	11	70000	8	1536(36,23,	7, 5, 1, 0, 0, 0, 0)	70	230220112100300001002
4520	7	11	70000	8	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	230220112100100001002
4521	7	11	70000	8	768(36,23,	7, 5, 1, 0, 0, 0, 0)	70	230220112100200001003
4522	7	11	70000	8	1536(32,16,	9, 6, 1, 0, 0, 0, 0)	68	310210122100200001001
4523	7	11	70000	8	1536(34,19,	9, 5, 1, 0, 0, 0, 0)	70	310210122100300001002
4524	7	11	70000	8	1536(35,21,	8, 5, 1, 0, 0, 0, 0)	70	310210122100200002002
4525	7	11	70000	8	3072(34,19,	9, 5, 1, 0, 0, 0, 0)	70	310210122100300002001
4526	7	11	70000	8	3072(32,15,12,	3, 2, 0, 0, 0, 0, 0)	70	130210122100200001001
4527	7	11	70000	8	384(32,15,12,	3, 2, 0, 0, 0, 0, 0)	70	130210122100100001002
4528	7	11	70000	8	3072(34,19,	9, 5, 1, 0, 0, 0, 0)	70	130230122100200001001
4529	7	11	70000	8	384(34,19,	9, 5, 1, 0, 0, 0, 0)	70	130230122100100001002
4530	7	11	70000	8	768(34,19,	9, 5, 1, 0, 0, 0, 0)	70	320210123100100001002
4531	7	11	70000	8	5760(34,19,	9, 5, 1, 0, 0, 0, 0)	70	320210123100200001001
4532	7	11	70000	8	2688(36,23,	7, 5, 1, 0, 0, 0, 0)	70	220220113100300002001
4533	7	11	70000	8	1536(34,20,	7, 6, 1, 0, 0, 0, 0)	68	220220113100200001001
4534	7	11	70000	8	1920(37,25,	6, 5, 1, 0, 0, 0, 0)	70	220220113100200002002
4535	7	11	70000	8	1536(36,23,	7, 5, 1, 0, 0, 0, 0)	70	220220113100300001002
4536	7	11	70000	8	192(34,20,	7, 6, 1, 0, 0, 0, 0)	68	220220113100100001002
4537	7	11	70000	8	768(36,23,	7, 5, 1, 0, 0, 0, 0)	70	220220113100200001003
4538	7	11	70000	2	384(36,23,	6, 7, 0, 0, 0, 0, 0)	70	220220131002020002010
4539	7	11	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	220220131003010002010
4540	7	11	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	220220131001030002010
4541	7	11	70000	2	384(36,23,	6, 7, 0, 0, 0, 0, 0)	70	220220131002020001020
4542	7	11	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	220220131003010001020
4543	7	11	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	120210232002010003010
4544	7	11	70000	2	24(32,18,	4, 10, 0, 0, 0, 0, 0)	70	120210121001020002010
4545	7	11	70000	2	96(34,21,	4, 9, 0, 0, 0, 0, 0)	70	120210121002030002010
4546	7	11	70000	2	48(32,18,	4, 10, 0, 0, 0, 0, 0)	70	120210121002010002010
4547	7	11	70000	2	96(34,21,	4, 9, 0, 0, 0, 0, 0)	70	120210121003020002010
4548	7	11	70000	2	96(36,24,	4, 8, 0, 0, 0, 0, 0)	70	120210121002030003020
4549	7	11	70000	2	96(34,21,	4, 9, 0, 0, 0, 0, 0)	70	120210121002030001020
4550	7	11	70000	2	192(36,24,	4, 8, 0, 0, 0, 0, 0)	70	120210121003020003020
4551	7	11	70000	2	24(32,18,	4, 10, 0, 0, 0, 0, 0)	70	120210121002010001020
4552	7	11	70000	2	96(34,21,	4, 9, 0, 0, 0, 0, 0)	70	120210121003020001020
4553	7	11	70000	2	96(36,24,	4, 8, 0, 0, 0, 0, 0)	70	120210121003020002030
4554	7	11	70000	2	96(34,20,	6, 8, 0, 0, 0, 0, 0)	70	120320121001030002010
4555	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210122002030003010
4556	7	11	70000	2	96(34,20,	6, 8, 0, 0, 0, 0, 0)	70	130210122002010003010
4557	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210122003020003010
4558	7	11	70000	2	192(35,22,	5, 8, 0, 0, 0, 0, 0)	70	120320121002020002010
4559	7	11	70000	2	384(37,25,	5, 7, 0, 0, 0, 0, 0)	70	130210122002030002020
4560	7	11	70000	2	192(35,22,	5, 8, 0, 0, 0, 0, 0)	70	120320121002020001020
4561	7	11	70000	2	384(37,25,	5, 7, 0, 0, 0, 0, 0)	70	130210122003020002020
4562	7	11	70000	2	96(34,20,	6, 8, 0, 0, 0, 0, 0)	70	120320121003010002010
4563	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	120320121003010003020
4564	7	11	70000	2	96(34,20,	6, 8, 0, 0, 0, 0, 0)	70	120320121003010001020
4565	7	11	70000	2	192(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210122003020001030
4566	7	11	70000	2	192(34,20,	6, 8, 0, 0, 0, 0, 0)	70	220310131002030002010
4567	7	11	70000	2	288(36,23,	6, 7, 0, 0, 0, 0, 0)	70	220310131002030002010
4568	7	11	70000	2	192(34,20,	6, 8, 0, 0, 0, 0, 0)	70	220310131002010002010
4569	7	11	70000	2	288(36,23,	6, 7, 0, 0, 0, 0, 0)	70	220310131003020002010
4570	7	11	70000	2	384(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210231002030002010
4571	7	11	70000	2	384(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210231002030001020
4572	7	11	70000	2	192(34,20,	6, 8, 0, 0, 0, 0, 0)	70	130210231002010002010
4573	7	11	70000	2	288(36,23,	6, 7, 0, 0, 0, 0, 0)	70	220310131002030001020
4574	7	11	70000	2	192(34,20,	6, 8, 0, 0, 0, 0, 0)	70	220310131002010001020
4575	7	11	70000	2	288(36,23,	6, 7, 0, 0, 0, 0, 0)	70	220310131003020001020
4576	7	11	70000	2	384(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210231003020002010
4577	7	11	70000	2	384(36,23,	6, 7, 0, 0, 0, 0, 0)	70	130210231003020001020
4578	7	11	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	230310221002010002010
4579	7	11	70000	2	48(35,21,	7, 7, 0, 0, 0, 0, 0)	70	230310221001020002010
4580	7	11	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	230310221002010001020
4581	7	11	70000	8	384(38,27,	6, 3, 2, 0, 0, 0, 0)	70	120300232030000121010
4582	7	11	70000	8	384(36,24,	6, 4, 2, 0, 0, 0, 0)	68	220200222020000111010
4583	7	11	70000	8	1536(37,26,	5, 4, 2, 0, 0, 0, 0)	68	220300222020000111010
4584	7	11	70000	8	1152(38,28,	4, 4, 2, 0, 0, 0, 0)	68	220300222020000111010
4585	7	11	70000	8	768(36,23,	8, 3, 2, 0, 0, 0, 0)	70	320200212020000121010
4586	7	11	70000	8	3072(37,25,	7, 3, 2, 0, 0, 0, 0)	70	320300212020000121010
4587	7	11	70000	8	2304(38,27,	6, 3, 2, 0, 0, 0, 0)	70	320300212030000121010
4588	7	11	70000	2	48(39,29,	4, 5, 1, 0, 0, 0, 0)	70	130120300012203002000
4589	7	11	70000	2	24(32,16,10,	4, 2, 0, 0, 0, 0, 0)	68	220110200011120200100
4590	7	11	70000	2	96(34,19,10,	3, 2, 0, 0, 0, 0, 0)	70	230110200011220200100
4591	7	11	70000	2	96(35,21,	9, 3, 2, 0, 0, 0, 0)	70	220110300011320200100
4592	7	11	70000	2	48(33,18,	9, 4, 2, 0, 0, 0, 0)	68	220110300011120200100

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
4593	7	11	70000	2	192(35,21,9,3,2,0,0,0,0,0)	70	230110300011220200100	
4594	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	230130200011220200100	
4595	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	230130300011220200100	
4596	7	11	70000	2	96(37,25,6,5,1,0,0,0,0,0)	70	220130300011320200100	
4597	7	11	70000	2	48(35,21,8,5,1,0,0,0,0,0)	70	320120200012120200100	
4598	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	320120300012120200100	
4599	7	11	70000	2	96(37,25,6,5,1,0,0,0,0,0)	70	210200201022300201020	
4600	7	11	70000	2	96(34,20,7,6,1,0,0,0,0,0)	68	210200302011200201010	
4601	7	11	70000	2	192(37,25,6,5,1,0,0,0,0,0)	70	210300302013200201010	
4602	7	11	70000	2	192(38,27,5,5,1,0,0,0,0,0)	70	210300201022300201020	
4603	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	210300203011200201020	
4604	7	11	70000	2	192(35,22,6,6,1,0,0,0,0,0)	68	210300302011200201010	
4605	7	11	70000	2	192(36,23,7,5,1,0,0,0,0,0)	70	310200302012200201010	
4606	7	11	70000	2	96(36,23,7,5,1,0,0,0,0,0)	70	310200201021300201020	
4607	7	11	70000	2	384(37,25,6,5,1,0,0,0,0,0)	70	310300302012200201010	
4608	7	11	70000	2	144(37,25,6,5,1,0,0,0,0,0)	70	310300201021300201020	
4609	7	11	70000	2	96(37,25,5,7,0,0,0,0,0,0)	70	120320200023200120010	
4610	7	11	70000	2	96(36,23,6,7,0,0,0,0,0,0)	70	130230200023100120010	
4611	7	11	70000	2	96(36,23,6,7,0,0,0,0,0,0)	70	130320200023100120010	
4612	7	11	70000	4	192(32,15,12,3,2,0,0,0,0,0)	70	120300121020010210010	
4613	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	220300131020010110020	
4614	7	11	70000	4	384(34,19,9,5,1,0,0,0,0,0)	70	310300122020010210010	
4615	7	11	70000	4	768(32,16,9,6,1,0,0,0,0,0)	68	320200121010010210010	
4616	7	11	70000	4	768(34,19,9,5,1,0,0,0,0,0)	70	320300121010020210010	
4617	7	11	70000	4	768(35,21,8,5,1,0,0,0,0,0)	70	320200121020020210010	
4618	7	11	70000	4	1536(34,19,9,5,1,0,0,0,0,0)	70	320300121020010210010	
4619	7	11	70000	4	96(37,25,6,5,1,0,0,0,0,0)	70	220200113020020220010	
4620	7	11	70000	4	384(36,23,7,5,1,0,0,0,0,0)	70	220300113020010220010	
4621	7	11	70000	4	1536(34,19,9,5,1,0,0,0,0,0)	70	330200122010010210010	
4622	7	11	70000	4	384(34,20,7,6,1,0,0,0,0,0)	68	230200112010010220010	
4623	7	11	70000	4	384(36,23,7,5,1,0,0,0,0,0)	70	230300112010020220010	
4624	7	11	70000	4	384(37,25,6,5,1,0,0,0,0,0)	70	230200112020020220010	
4625	7	11	70000	4	768(36,23,7,5,1,0,0,0,0,0)	70	230300112020010220010	
4626	7	11	70000	2	192(36,23,6,7,0,0,0,0,0,0)	70	320200103012310200010	
4627	7	11	70000	2	48(36,24,4,8,0,0,0,0,0,0)	70	310300102012220200010	
4628	7	11	70000	2	96(38,27,4,7,0,0,0,0,0,0)	70	310300102012220300020	
4629	7	11	70000	2	96(35,21,7,7,0,0,0,0,0,0)	70	230200110020120100320	
4630	7	11	70000	12	576(32,17,7,7,1,0,0,0,0,0)	68	220200200210011111000	
4631	7	11	70000	12	1152(36,23,7,5,1,0,0,0,0,0)	70	220200200210011222000	
4632	7	11	70000	12	1152(32,16,9,6,1,0,0,0,0,0)	68	220300100220011111000	
4633	7	11	70000	12	576(33,17,10,5,1,0,0,0,0,0)	70	220200200230011111000	
4634	7	11	70000	12	2304(34,20,7,6,1,0,0,0,0,0)	68	320200200210011212000	
4635	7	11	70000	12	2304(35,21,8,5,1,0,0,0,0,0)	70	230200200210011221000	
4636	7	11	70000	12	4608(34,19,9,5,1,0,0,0,0,0)	70	320300100220011121000	
4637	7	11	70000	12	1728(36,23,7,5,1,0,0,0,0,0)	70	330200200210011222000	
4638	7	11	70000	12	1152(34,19,9,5,1,0,0,0,0,0)	70	330200200210011211000	
4639	7	10	70000	2	24(32,16,8,8,0,0,0,0,0,0)	70	120101200101000002120	
4640	7	10	70000	2	96(34,20,6,8,0,0,0,0,0,0)	70	120101200102000002120	
4641	7	10	70000	2	96(35,22,5,8,0,0,0,0,0,0)	70	120101200103000002120	
4642	7	10	70000	2	192(34,20,6,8,0,0,0,0,0,0)	70	220101200101000002120	
4643	7	10	70000	2	624(36,24,4,8,0,0,0,0,0,0)	70	220101200102000002120	
4644	7	10	70000	2	480(37,26,3,8,0,0,0,0,0,0)	70	220101200103000002120	
4645	7	10	70000	2	288(35,22,5,8,0,0,0,0,0,0)	70	320101200101000002120	
4646	7	10	70000	2	768(37,26,3,8,0,0,0,0,0,0)	70	320101200102000002120	
4647	7	10	70000	2	576(38,28,2,8,0,0,0,0,0,0)	70	320101200103000002120	
4648	7	10	70000	4	96(36,24,4,8,0,0,0,0,0,0)	70	220101200120000002120	
4649	7	10	70000	4	384(37,26,3,8,0,0,0,0,0,0)	70	320101200120000002120	
4650	7	10	70000	4	288(38,28,2,8,0,0,0,0,0,0)	70	320101200130000002120	
4651	7	10	70000	2	24(32,16,8,8,0,0,0,0,0,0)	70	1102012010000122000010	
4652	7	10	70000	2	192(34,20,6,8,0,0,0,0,0,0)	70	2102012010000122000010	
4653	7	10	70000	2	192(35,22,5,8,0,0,0,0,0,0)	70	3102012010000122000010	
4654	7	10	70000	2	360(36,24,4,8,0,0,0,0,0,0)	70	2102012010000122000020	
4655	7	10	70000	2	672(37,26,3,8,0,0,0,0,0,0)	70	3102012010000122000020	
4656	7	10	70000	2	336(38,28,2,8,0,0,0,0,0,0)	70	3102012010000122000030	
4657	7	10	70000	4	24(32,16,8,8,0,0,0,0,0,0)	70	120200101100221000001	
4658	7	10	70000	4	192(34,20,6,8,0,0,0,0,0,0)	70	220200101100221000001	
4659	7	10	70000	4	192(35,22,5,8,0,0,0,0,0,0)	70	320200101100221000001	
4660	7	10	70000	4	384(36,24,4,8,0,0,0,0,0,0)	70	220200101100221000002	
4661	7	10	70000	4	768(37,26,3,8,0,0,0,0,0,0)	70	320200101100221000002	
4662	7	10	70000	4	384(38,28,2,8,0,0,0,0,0,0)	70	320200101100221000003	
4663	7	10	70000	4	768(32,15,11,5,1,0,0,0,0,0)	70	211200200210011000010	
4664	7	10	70000	4	2880(34,19,9,5,1,0,0,0,0,0)	70	211200200210011000020	
4665	7	10	70000	4	2688(35,21,8,5,1,0,0,0,0,0)	70	211200200210011000030	
4666	7	10	70000	4	384(35,21,8,5,1,0,0,0,0,0)	70	2112001001200210000030	
4667	7	10	70000	6	576(32,15,11,5,1,0,0,0,0,0)	70	222111100020001000001	
4668	7	10	70000	6	2016(34,19,9,5,1,0,0,0,0,0)	70	222111100020001000002	
4669	7	10	70000	6	1728(35,21,8,5,1,0,0,0,0,0)	70	222111100020001000003	
4670	7	10	70000	6	576(34,19,9,5,1,0,0,0,0,0)	70	222111200010001000002	
4671	7	10	70000	6	1152(35,21,8,5,1,0,0,0,0,0)	70	222111200010001000003	
4672	7	10	70000	1	24(34,20,6,8,0,0,0,0,0,0)	70	220101100220001001200	
4673	7	10	70000	1	48(36,23,6,7,0,0,0,0,0,0)	70	220101100220001002300	
4674	7	10	70000	1	24(34,20,6,8,0,0,0,0,0,0)	70	220101100220001002100	
4675	7	10	70000	1	48(36,23,6,7,0,0,0,0,0,0)	70	220101100220001003200	
4676	7	10	70000	1	48(36,23,6,7,0,0,0,0,0,0)	70	220101100230002001200	
4677	7	10	70000	1	48(36,23,6,7,0,0,0,0,0,0)	70	220101100230002002100	
4678	7	10	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	320101100220001001200	
4679	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	320101100220001002300	
4680	7	10	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	320101100220001002100	
4681	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	320101100220001003200	
4682	7	10	70000	1	48(37,25,5,7,0,0,0,0,0,0)	70	320101100220003001200	
4683	7	10	70000	1	48(37,25,5,7,0,0,0,0,0,0)	70	320101100220003002100	
4684	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	320101100230002001200	
4685	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	320101100230002002100	
4686	7	10	70000	1	24(32,16,8,8,0,0,0,0,0,0)	70	210102110201002000001	
4687	7	10	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	210102110201002000002	
4688	7	10	70000	1	96(35,22,5,8,0,0,0,0,0,0)	70	210102110201002000003	
4689	7	10	70000	1	96(34,19,8,7,0,0,0,0,0,0)	70	2101021102020030000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CNOE	TERM	GRAPH MATRIX
4696	7	10	70000	1	336(36,23,6,7,0,0,0,0,0,0)	70	2101021102030020000002	
4697	7	10	70000	1	288(37,25,5,7,0,0,0,0,0,0)	70	2101021102030020000003	
4698	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	2201031102010020000001	
4699	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2201031102010020000002	
4700	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	2201031102010020000003	
4701	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	2201031102020010000001	
4702	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2201031102020010000002	
4703	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	2201031102020010000003	
4704	7	10	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2201011102010020000002	
4705	7	10	70000	1	96(35,22,5,8,0,0,0,0,0,0)	70	2201011102010020000003	
4706	7	10	70000	1	24(32,16,8,8,0,0,0,0,0,0)	70	2201011102010020000001	
4707	7	10	70000	1	336(36,23,6,7,0,0,0,0,0,0)	70	2201011102020030000002	
4708	7	10	70000	1	288(37,25,5,7,0,0,0,0,0,0)	70	2201011102020030000003	
4709	7	10	70000	1	96(34,19,8,7,0,0,0,0,0,0)	70	2201011102020010000001	
4710	7	10	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2201011102020010000002	
4711	7	10	70000	1	96(35,22,5,8,0,0,0,0,0,0)	70	2201011102020010000003	
4712	7	10	70000	1	24(32,16,8,8,0,0,0,0,0,0)	70	2201011102020010000001	
4713	7	10	70000	1	336(36,23,6,7,0,0,0,0,0,0)	70	2201011102030020000002	
4714	7	10	70000	1	288(37,25,5,7,0,0,0,0,0,0)	70	2201011102030020000003	
4715	7	10	70000	1	96(34,19,8,7,0,0,0,0,0,0)	70	2201011102030020000001	
4716	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2301021102010020000002	
4717	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	2301021102010020000003	
4718	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	2301021102010020000001	
4719	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2301021102020010000002	
4720	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	2301021102020010000003	
4721	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	2301021102020010000001	
4722	7	10	70000	1	24(32,16,8,8,0,0,0,0,0,0)	70	1201012001000210000012	
4723	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	1201012001000210000023	
4724	7	10	70000	1	24(32,16,8,8,0,0,0,0,0,0)	70	1201012001000210000021	
4725	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	1201012001000210000032	
4726	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	1301022001000210000012	
4727	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	1301022001000210000021	
4728	7	10	70000	1	24(34,20,6,8,0,0,0,0,0,0)	70	2101022001000210000012	
4729	7	10	70000	1	48(36,23,6,7,0,0,0,0,0,0)	70	2101022001000210000023	
4730	7	10	70000	1	24(34,20,6,8,0,0,0,0,0,0)	70	2101022001000210000021	
4731	7	10	70000	1	43(36,23,6,7,0,0,0,0,0,0)	70	2101022001000210000032	
4732	7	10	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2201012001000210000012	
4733	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2201012001000210000023	
4734	7	10	70000	1	96(34,20,6,8,0,0,0,0,0,0)	70	2201012001000210000021	
4735	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2201012001000210000032	
4736	7	10	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2201032001000210000012	
4737	7	10	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	2201032001000210000021	
4738	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2301022001000210000012	
4739	7	10	70000	1	192(36,23,6,7,0,0,0,0,0,0)	70	2301022001000210000021	
4740	7	10	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	3101022001000210000012	
4741	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	3101022001000210000023	
4742	7	10	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	3101022001000210000021	
4743	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	3101022001000210000032	
4744	7	10	70000	1	96(35,22,5,8,0,0,0,0,0,0)	70	3201012001000210000012	
4745	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	3201012001000210000023	
4746	7	10	70000	1	96(35,22,5,8,0,0,0,0,0,0)	70	3201012001000210000021	
4747	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	3201012001000210000032	
4748	7	10	70000	1	144(37,25,5,7,0,0,0,0,0,0)	70	3201032001000210000012	
4749	7	10	70000	1	144(37,25,5,7,0,0,0,0,0,0)	70	3201032001000210000021	
4750	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	3301022001000210000012	
4751	7	10	70000	1	192(37,25,5,7,0,0,0,0,0,0)	70	3301022001000210000021	
4752	7	10	70000	1	24(32,16,8,8,0,0,0,0,0,0)	70	2111021002200010000001	
4753	7	10	70000	1	72(34,20,6,8,0,0,0,0,0,0)	70	2111021002200010000002	
4754	7	10	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	2111021002200010000003	
4755	7	10	70000	1	240(37,25,5,7,0,0,0,0,0,0)	70	2111021002300020000003	
4756	7	10	70000	1	96(34,19,8,7,0,0,0,0,0,0)	70	2111021002300020000001	
4757	7	10	70000	1	288(36,23,6,7,0,0,0,0,0,0)	70	2111021002300020000002	
4758	7	10	70000	1	48(34,19,8,7,0,0,0,0,0,0)	70	3121021002200010000001	
4759	7	10	70000	1	144(36,23,6,7,0,0,0,0,0,0)	70	3121021002200010000002	
4760	7	10	70000	1	144(37,25,5,7,0,0,0,0,0,0)	70	3121021002200010000003	
4761	7	10	70000	1	24(34,20,6,8,0,0,0,0,0,0)	70	2201011002110020000002	
4762	7	10	70000	1	48(35,22,5,8,0,0,0,0,0,0)	70	2201011002110020000003	
4763	7	10	70000	1	48(36,23,6,7,0,0,0,0,0,0)	70	2301021002110020000002	
4764	7	10	70000	1	96(37,25,5,7,0,0,0,0,0,0)	70	2301021002110020000003	
4765	7	10	70000	1	96(36,23,6,7,0,0,0,0,0,0)	70	3201011002120020000002	
4766	7	10	70000	1	144(37,25,5,7,0,0,0,0,0,0)	70	3201011002120020000003	
4767	7	10	70000	2	24(32,16,8,8,0,0,0,0,0,0)	70	1122012000120010100000	
4768	7	10	70000	2	96(34,20,6,8,0,0,0,0,0,0)	70	1122012000120010200000	
4769	7	10	70000	2	96(35,22,5,8,0,0,0,0,0,0)	70	1122012000120010300000	
4770	7	10	70000	2	96(34,19,8,7,0,0,0,0,0,0)	70	1123022000120010100000	
4771	7	10	70000	2	384(36,23,6,7,0,0,0,0,0,0)	70	1123022000120010200000	
4772	7	10	70000	2	384(37,25,5,7,0,0,0,0,0,0)	70	1123022000120010300000	
4773	7	10	70000	12	1152(32,15,11,5,1,0,0,0,0,0)	70	2221111000000020000011	
4774	7	10	70000	12	1152(34,19,9,5,1,0,0,0,0,0)	70	2221111000000020000012	
4775	7	10	70000	12	8640(34,19,9,5,1,0,0,0,0,0)	70	2221111000000020000011	
4776	7	10	70000	12	3456(35,21,8,5,1,0,0,0,0,0)	70	2221111000000020000012	
4777	7	10	70000	12	12672(35,21,8,5,1,0,0,0,0,0)	70	2221111000000020000011	
4778	7	10	70000	12	288(35,21,8,5,1,0,0,0,0,0)	70	1121223000000010000012	
4779	7	10	70000	12	1152(35,21,8,5,1,0,0,0,0,0)	70	1121223000000020000011	
4780	7	10	70000	4	192(32,16,8,8,0,0,0,0,0,0)	70	2112001001200010210000	
4781	7	10	70000	4	192(32,16,8,8,0,0,0,0,0,0)	70	2112001001200010210000	
4782	7	10	70000	4	384(34,19,8,7,0,0,0,0,0,0)	70	1212001001200010320000	
4783	7	10	70000	4	384(34,19,8,7,0,0,0,0,0,0)	70	2112001001200010320000	
4784	7	10	70000	4	768(34,19,8,7,0,0,0,0,0,0)	70	2113001002200010210000	
4785	7	10	70000	4	768(34,19,8,7,0,0,0,0,0,0)	70	1213001002200010210000	
4786	7	10	70000	4	384(34,19,8,7,0,0,0,0,0,0)	70	3211001002200010210000	
4787	7	10	70000	4	384(34,19,8,7,0,0,0,0,0,0)	70	2311001002200010210000	
4788	7	10	70000	4	768(34,19,8,7,0,0,0,0,0,0)	70	3212001001200010210000	
4789	7	10	70000	4	768(34,19,8,7,0,0,0,0,0,0)	70	2312001001200010210000	
4790	7	10	70000	8	384(32,16,8,8,0,0,0,0,0,0)	70	2112001001021000002100	
4791	7	10	70000	8	768(7			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COOE	TERM	GRAPH MATRIX
4799	7	10	70000	8	3072(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321100200102100000210
4800	7	10	70000	8	3072(34,19,	8, 7, 0, 0, 0, 0, 0)	70	231100200102100000210
4801	7	10	70000	8	96(32,16,	8, 8, 0, 0, 0, 0, 0)	70	211201200010001200000
4802	7	10	70000	8	768(34,19,	8, 7, 0, 0, 0, 0, 0)	70	312201200010001200000
4803	7	10	70000	2	192(32,16,	8, 8, 0, 0, 0, 0, 0)	70	211100200100020000121
4804	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211100200100030000122
4805	7	10	70000	2	192(32,16,	8, 8, 0, 0, 0, 0, 0)	70	211200100100010000122
4806	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211200100100020000123
4807	7	10	70000	2	192(32,16,	8, 8, 0, 0, 0, 0, 0)	70	211200100100020000121
4808	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211200100100030000122
4809	7	10	70000	2	768(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211200300100020000121
4810	7	10	70000	2	768(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211300200100010000122
4811	7	10	70000	2	768(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211300200100020000121
4812	7	10	70000	2	192(34,19,	8, 7, 0, 0, 0, 0, 0)	70	312100200100020000121
4813	7	10	70000	2	192(34,19,	8, 7, 0, 0, 0, 0, 0)	70	312200100100010000122
4814	7	10	70000	2	192(34,19,	8, 7, 0, 0, 0, 0, 0)	70	312200100100020000121
4815	7	10	70000	2	96(34,19,	8, 7, 0, 0, 0, 0, 0)	70	112200300100020000121
4816	7	10	70000	2	96(34,19,	8, 7, 0, 0, 0, 0, 0)	70	112300200100010000122
4817	7	10	70000	2	96(34,19,	8, 7, 0, 0, 0, 0, 0)	70	112300200100020000121
4818	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321100200100020000121
4819	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321200100100010000122
4820	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321200100100020000121
4821	7	10	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	222100200100020000121
4822	7	10	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	222200100100010000122
4823	7	10	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	222200100100020000121
4824	7	10	70000	4	96(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321200100100020000121
4825	7	10	70000	2	192(32,16,	8, 8, 0, 0, 0, 0, 0)	70	211200100120001000021
4826	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211200100120001000032
4827	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	211300100220001000021
4828	7	10	70000	2	192(34,19,	8, 7, 0, 0, 0, 0, 0)	70	312200100120001000021
4829	7	10	70000	2	96(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321100100220001000012
4830	7	10	70000	2	96(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321100100220001000021
4831	7	10	70000	2	384(34,19,	8, 7, 0, 0, 0, 0, 0)	70	321200100120001000021
4832	7	10	70000	2	192(35,21,	7, 7, 0, 0, 0, 0, 0)	70	222200100120001000021
(7,2)								
1	7	11	52000	240	-1503360(34,19,11,2,1,1,0,0,0,0)	70	312127211100000000001	
2	7	11	52000	240	-3674880(36,23,9,2,1,1,0,0,0,0)	70	312127211100000000002	
3	7	10	52000	24	-274752(36,23,9,3,2,0,0,0,0,0)	70	211312221000000000001	
4	7	11	52000	240	-2707200(37,25,8,2,1,1,0,0,0,0)	70	312127211100000000003	
5	7	10	52000	24	-620928(38,27,6,3,2,0,0,0,0,0)	70	211312221000000000002	
6	7	10	52000	24	-445824(39,29,5,3,2,0,0,0,0,0)	70	211312221000000000003	
7	7	10	52000	24	-68544(36,24,6,4,2,0,0,0,0,0)	68	211221271000000000001	
8	7	10	52000	24	-154656(38,28,4,4,2,0,0,0,0,0)	68	211221271000000000002	
9	7	10	52000	24	-111744(39,30,3,4,2,0,0,0,0,0)	68	211221271000000000003	
10	7	9	52000	16	-11520(36,24,4,8,0,0,0,0,0,0)	70	112102120200000000001	
11	7	9	52000	16	-26112(38,28,2,8,0,0,0,0,0,0)	70	112102120200000000002	
12	7	9	52000	16	-18816(39,30,1,8,0,0,0,0,0,0)	70	112102120200000000003	
13	7	9	43000	144	-1143936(36,23,7,5,1,0,0,0,0,0)	70	222111000000002000011	
14	7	15	61000	720	-535680(33,20,7,4,1,0,1,0,0,0)	64	123212712232111000000	
15	7	15	61000	720	-518400(32,18,9,2,2,0,1,0,0,0)	64	213312112222111000000	
16	7	15	61000	720	-178560(33,20,6,6,0,0,1,0,0,0)	64	112213231232211000000	
17	7	14	61000	48	-34560(34,22,6,4,0,2,0,0,0,0)	64	112211122332210000000	
18	7	14	61000	48	-69120(34,22,6,4,0,2,0,0,0,0)	64	112211231232210000000	
19	7	14	61000	48	-34560(34,22,6,4,0,2,0,0,0,0)	64	112211322132210000000	
20	7	13	61000	12	-38880(35,22,8,3,1,1,0,0,0,0)	68	121123321232100000000	
21	7	13	61000	12	-19296(35,23,6,4,1,1,0,0,0,0)	66	211132312222100000000	
22	7	13	61000	12	-19872(36,23,9,2,1,1,0,0,0,0)	70	112213231232200000000	
23	7	13	61000	12	-37440(34,21,8,2,2,1,0,0,0,0)	66	121123212132100000000	
24	7	13	61000	12	-37440(34,22,6,3,2,1,0,0,0,0)	64	211312221122100000000	
25	7	13	61000	12	-38592(35,22,9,1,2,1,0,0,0,0)	68	112122231132200000000	
26	7	13	61000	12	-37440(34,21,8,2,2,1,0,0,0,0)	66	121212321132100000000	
27	7	13	61000	12	-39168(35,22,8,3,1,1,0,0,0,0)	68	121123321132100000000	
28	7	13	61000	12	-38592(35,23,6,4,1,1,0,0,0,0)	66	211223312122100000000	
29	7	13	61000	12	-39168(36,23,9,2,1,1,0,0,0,0)	70	112322231132200000000	
30	7	13	61000	12	-39168(35,22,8,3,1,1,0,0,0,0)	68	121232321132100000000	
31	7	13	61000	12	-40032(36,24,7,3,1,1,0,0,0,0)	68	121232212232100000000	
32	7	13	61000	12	-19872(36,25,5,4,1,1,0,0,0,0)	66	211223221222100000000	
33	7	13	61000	12	-20160(37,25,8,2,1,1,0,0,0,0)	70	112322122232200000000	
34	7	13	61000	16	-27648(36,26,4,2,4,0,0,0,0,0)	64	112213213021022000000	
35	7	13	61000	16	-6912(36,24,8,0,4,0,0,0,0,0)	68	121123123021033000000	
36	7	13	61000	16	-13824(36,26,4,2,4,0,0,0,0,0)	64	112122213021032000000	
37	7	13	61000	16	-6912(36,28,0,4,4,0,0,0,0,0)	62	121212212021022000000	
38	7	12	61000	48	-3888(40,32,0,8,0,0,0,0,0,0)	70	222202220202220000000	
39	7	12	61000	4	-13824(36,24,7,2,3,0,0,0,0,0)	68	112213213032010000000	
40	7	12	61000	4	-14208(37,25,8,1,3,0,0,0,0,0)	70	121123123032020000000	
41	7	12	61000	4	-13824(36,25,5,3,3,0,0,0,0,0)	66	112213122032010000000	
42	7	12	61000	4	-14208(37,26,6,2,3,0,0,0,0,0)	68	112213322021020000000	
43	7	12	61000	4	-14208(37,25,8,1,3,0,0,0,0,0)	70	112213322032010000000	
44	7	12	61000	4	-6912(36,24,7,2,3,0,0,0,0,0)	68	112213231032010000000	
45	7	12	61000	4	-14208(37,26,6,2,3,0,0,0,0,0)	68	112122213032020000000	
46	7	12	61000	4	-13824(36,25,5,3,3,0,0,0,0,0)	66	121212123032010000000	
47	7	12	61000	4	-14208(37,27,4,3,3,0,0,0,0,0)	66	121212232021020000000	
48	7	12	61000	4	-13824(36,26,3,4,3,0,0,0,0,0)	64	121212212032010000000	
49	7	12	61000	4	-7296(38,27,7,1,3,0,0,0,0,0)	70	112122322032020000000	
50	7	12	61000	4	-14208(37,26,6,2,3,0,0,0,0,0)	68	121212232032010000000	
51	7	12	61000	4	-6912(36,25,5,3,3,0,0,0,0,0)	66	121212321032010000000	
52	7	12	61000	4	-3744(38,30,0,6,2,0,0,0,0,0)	66	110122122223300000000	
53	7	12	61000	4	-6912(36,26,7,6,2,0,0,0,0,0)	66	110233122112200000000	
54	7	12	61000	4	-14688(38,28,4,4,2,0,0,0,0,0)	68	110233122123300000000	
55	7	12	61000	4	-14208(37,26,5,4,2,0,0,0,0,0)	68	210223132113200000000	
56	7	12	61000	4	-14784(39,27,6,3,2,0,0,0,0,0)	70	120123232123200000000	
57	7	12	61000	12	-38016(34,21,7,4,1,1,0,0,0,0)	66	123212121121000000000	
58	7	12	61000	12	-81792(36,24,7,3,1,1,0,0,0,0)	68	123212121132000000000	
59	7	12	61000	12	-38016(34,21,7,4,1,1,			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
69	7	12	61000	12	-41472(36,24,7,3,1,1,0,0,0,0)	68	1211232121370000000000	
70	7	12	61000	12	-41472(36,24,7,3,1,1,0,0,0,0)	68	1122131221370000000000	
71	7	12	61000	12	-21888(38,27,6,4,0,1,0,0,0,0)	70	1321221272370000000000	
72	7	12	61000	12	-21888(38,27,6,4,0,1,0,0,0,0)	70	1232122122370000000000	
73	7	12	61000	12	-39168(35,21,9,4,0,1,0,0,0,0)	70	2133122211310000000000	
74	7	12	61000	12	-40037(36,23,8,4,0,1,0,0,0,0)	70	2133122211270000000000	
75	7	12	61000	12	-20160(36,23,8,4,0,1,0,0,0,0)	70	2222221311310000000000	
76	7	12	61000	12	-40896(37,25,7,4,0,1,0,0,0,0)	70	2222723111270000000000	
77	7	12	61000	12	-20160(36,23,8,4,0,1,0,0,0,0)	70	2222723111310000000000	
78	7	11	61000	2	-1584(34,22,4,6,2,0,0,0,0,0)	66	1121021202211000000000	
79	7	11	61000	2	-3552(37,27,2,7,1,0,0,0,0,0)	68	1121021202322000000000	
80	7	11	61000	2	-6912(36,24,6,4,2,0,0,0,0,0)	68	1122031703711000000000	
81	7	11	61000	2	-15168(39,29,4,5,1,0,0,0,0,0)	70	1122031203711000000000	
82	7	11	61000	2	-7488(38,28,3,6,1,0,0,0,0,0)	70	1122031203327000000000	
83	7	11	61000	2	-3552(37,25,7,3,2,0,0,0,0,0)	68	1122031203731000000000	
84	7	11	61000	2	-3840(39,30,2,6,1,0,0,0,0,0)	70	1122032302211000000000	
85	7	11	61000	2	-7680(39,29,4,5,1,0,0,0,0,0)	68	1127037302122000000000	
86	7	11	61000	2	-7104(37,26,4,6,1,0,0,0,0,0)	70	1127032302231000000000	
87	7	11	61000	2	-7104(37,25,6,5,1,0,0,0,0,0)	68	2131021302221000000000	
88	7	11	61000	2	-7296(38,27,5,5,1,0,0,0,0,0)	70	1731031707371000000000	
89	7	11	61000	2	-3552(37,25,6,5,1,0,0,0,0,0)	70	2131022203271000000000	
90	7	11	61000	2	-3744(38,29,2,5,2,0,0,0,0,0)	70	2271031302311000000000	
91	7	11	61000	2	-7488(38,28,4,4,2,0,0,0,0,0)	66	1171221022320000000000	
92	7	11	61000	2	-7488(38,28,4,4,2,0,0,0,0,0)	68	1121222031230000000000	
93	7	11	61000	2	-3840(39,29,5,3,2,0,0,0,0,0)	68	1121222031370000000000	
94	7	11	61000	2	-3840(39,29,5,3,2,0,0,0,0,0)	70	1121223027230000000000	
95	7	11	61000	2	-6912(36,24,6,4,2,0,0,0,0,0)	70	1121223027370000000000	
96	7	11	61000	2	-14784(38,27,6,3,2,0,0,0,0,0)	68	1231211032210000000000	
97	7	11	61000	2	-6912(36,25,4,5,2,0,0,0,0,0)	70	1231211032370000000000	
98	7	11	61000	2	-14688(38,28,4,4,2,0,0,0,0,0)	66	1231212071120000000000	
99	7	11	61000	2	-6912(36,25,4,5,2,0,0,0,0,0)	68	1231212071230000000000	
100	7	11	61000	2	-14784(38,28,4,4,2,0,0,0,0,0)	66	1231212071710000000000	
101	7	11	61000	2	-7104(37,25,7,3,2,0,0,0,0,0)	68	1731712071320000000000	
102	7	11	61000	2	-6912(36,24,6,4,2,0,0,0,0,0)	70	1127312037210000000000	
103	7	11	61000	2	-14688(38,27,6,3,2,0,0,0,0,0)	68	1122313021120000000000	
104	7	11	61000	2	-6912(36,24,6,4,2,0,0,0,0,0)	70	1122313021230000000000	
105	7	11	61000	2	-14784(38,27,6,3,2,0,0,0,0,0)	68	1122313071710000000000	
106	7	11	61000	2	-7104(37,25,7,3,2,0,0,0,0,0)	70	1127313021320000000000	
107	7	11	61000	2	-14496(38,27,6,3,2,0,0,0,0,0)	70	2221317021130000000000	
108	7	11	61000	2	-7104(37,25,7,3,2,0,0,0,0,0)	70	2221312071270000000000	
109	7	11	61000	24	-50112(36,23,9,2,1,0,0,0,0,0)	70	2221312021310000000000	
110	7	11	61000	24	-108288(37,25,8,2,1,0,0,0,0,0)	70	3121222111200000000000	
111	7	11	61000	24	-43200(34,19,11,2,1,0,0,0,0,0)	70	3121222111300000000000	
112	7	11	61000	24	-193536(36,23,9,2,1,0,0,0,0,0)	70	3212121211100000000000	
113	7	11	61000	24	-208512(37,25,8,2,1,0,0,0,0,0)	70	3212121211200000000000	
114	7	11	61000	24	-54720(37,25,8,2,1,0,0,0,0,0)	70	3212121211300000000000	
115	7	11	61000	24	-100274(36,23,9,2,1,0,0,0,0,0)	70	1171222311300000000000	
116	7	11	61000	24	-214272(37,25,8,2,1,0,0,0,0,0)	70	1232121211200000000000	
117	7	11	61000	4	-14592(38,27,6,3,2,0,0,0,0,0)	70	1232121211300000000000	
118	7	11	61000	4	-14400(38,27,6,3,2,0,0,0,0,0)	70	1122132310370000000000	
119	7	11	61000	4	-14592(38,28,4,4,2,0,0,0,0,0)	70	1711233710370000000000	
120	7	11	61000	4	-14400(38,28,4,4,2,0,0,0,0,0)	68	1121222310370000000000	
121	7	11	61000	4	-14208(37,25,7,3,2,0,0,0,0,0)	68	1212173710370000000000	
122	7	11	61000	4	-14208(37,25,7,3,2,0,0,0,0,0)	70	1123222310210000000000	
123	7	11	61000	4	-6912(36,24,6,4,2,0,0,0,0,0)	70	1217323710210000000000	
124	7	11	61000	4	-14592(38,27,6,3,2,0,0,0,0,0)	68	1122312310210000000000	
125	7	11	61000	4	-6912(36,24,6,4,2,0,0,0,0,0)	70	1122312310370000000000	
126	7	11	61000	4	-14400(38,27,6,3,2,0,0,0,0,0)	68	1213713210210000000000	
127	7	11	61000	4	-14784(39,29,5,3,2,0,0,0,0,0)	70	1713213210370000000000	
128	7	11	61000	4	-14976(39,29,5,3,2,0,0,0,0,0)	70	1173221220320000000000	
129	7	11	61000	12	-11664(40,32,0,8,0,0,0,0,0,0)	70	1212322120320000000000	
130	7	11	61000	16	-54528(36,24,6,4,2,0,0,0,0,0)	70	1102332330172000000000	
131	7	11	61000	16	-50688(34,20,9,2,3,0,0,0,0,0)	68	1231213207210010000000	
132	7	11	61000	16	-111360(37,25,7,3,2,0,0,0,0,0)	68	1322111700210010000000	
133	7	11	61000	16	-112128(37,25,7,3,2,0,0,0,0,0)	70	1321223200710010000000	
134	7	11	61000	16	-54144(36,24,6,4,2,0,0,0,0,0)	70	1232123700210010000000	
135	7	11	61000	16	-5760(32,16,12,0,4,0,0,0,0,0)	68	1327113200210010000000	
136	7	11	61000	16	-52724(35,21,10,1,3,0,0,0,0,0)	68	1122111700210010000000	
137	7	11	61000	16	-28416(37,25,7,3,2,0,0,0,0,0)	70	1232121200210010000000	
138	7	10	61000	8	-69888(38,27,5,5,1,0,0,0,0,0)	70	1712177300320010000000	
139	7	10	61000	8	-69120(38,27,5,5,1,0,0,0,0,0)	70	1213213700007100000000	
140	7	10	61000	8	-33408(36,24,5,6,1,0,0,0,0,0)	70	1122313200071000000000	
141	7	10	61000	8	-16128(36,24,5,6,1,0,0,0,0,0)	68	1231212100071000000000	
142	7	10	61000	8	-71474(38,27,5,5,1,0,0,0,0,0)	68	1122312700071000000000	
143	7	10	61000	8	-72192(38,27,5,5,1,0,0,0,0,0)	70	1231213700071000000000	
144	7	10	61000	8	-17280(36,24,5,6,1,0,0,0,0,0)	70	1327113700071000000000	
145	7	10	61000	8	-6912(34,20,8,4,2,0,0,0,0,0)	68	1322112100007100000000	
146	7	10	61000	8	-30336(36,23,8,3,2,0,0,0,0,0)	68	1211212100002100000000	
147	7	10	61000	8	-6912(34,20,8,4,2,0,0,0,0,0)	70	1211213200002100000000	
148	7	10	61000	8	-30336(36,23,8,3,2,0,0,0,0,0)	68	1127112100002100000000	
149	7	10	61000	2	-6912(36,24,5,6,1,0,0,0,0,0)	70	1122113200002100000000	
150	7	10	61000	2	-14784(38,27,5,5,1,0,0,0,0,0)	68	1321707110100700000000	
151	7	10	61000	2	-14784(38,27,5,5,1,0,0,0,0,0)	70	1371207110200370000000	
152	7	10	61000	2	-6912(36,24,5,6,1,0,0,0,0,0)	68	1321202110270100000000	
153	7	10	61000	2	-14880(38,27,5,5,1,0,0,0,0,0)	70	1321202110300700000000	
154	7	10	61000	2	-3168(34,20,8,4,2,0,0,0,0,0)	68	1121202110200100000000	
155	7	10	61000	2	-6912(36,23,8,3,2,0,0,0,0,0)	70	1121202110300200000000	
156	7	10	61000	2	-7104(37,25,6,5,1,0,0,0,0,0)	70	1231202120200100000000	
157	7	10	61000	2	-3744(38,27,5,5,1,0,0,0,0,0)	70	1231202120200100000000	
158	7	10	61000	2	-7680(39,29,4,5,1,0,0,0,0,0)	70	1212307120100300000000	
159	7	10	61000	2	-3744(38,27,5,5,1,0,0,0,0,0)	70	1212307120200700000000	
160	7	10	61000	2	-7104(37,25,6,5,1,0,0,0,0,0)	70	1712302120300100000000	
161	7	10	61000	2	-6912(36,24,5,6,1,0,0,0,0,0)	70	1321201220700100000000	
162	7	10	61000	2	-6912(36,24,5,6,1,0,0,0,0,0)	68	1231201210200100000000	
163	7	10	61000	2	-14784(38,27,5,5,1,0,0,0,0,0)	70	1231201210300700000000	
164	7	10	61000	2	-3744(38,27,5,5,1,0,0,0,0,0)	70	1	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
172	7	10	61000	2	-7488(38,27, 5, 5, 1, 0, 0, 0, 0)	70	1122313020120000000000	
173	7	10	61000	2	-7488(38,27, 5, 5, 1, 0, 0, 0, 0)	70	1122312030210000000000	
174	7	10	61000	2	-7488(38,27, 5, 5, 1, 0, 0, 0, 0)	70	1122313020210000000000	
175	7	10	61000	4	-13824(36,23, 8, 3, 2, 0, 0, 0, 0)	70	2113122210100000000000	
176	7	10	61000	4	-58368(38,27, 6, 3, 2, 0, 0, 0, 0)	70	2113122210200000000000	
177	7	10	61000	4	-60672(39,29, 5, 3, 2, 0, 0, 0, 0)	70	2113122210300000000000	
178	7	10	61000	4	-14400(38,27, 6, 3, 2, 0, 0, 0, 0)	70	2111322210200000000000	
179	7	10	61000	4	-30336(39,29, 5, 3, 2, 0, 0, 0, 0)	70	2111322210300000000000	
180	7	10	61000	4	-6912(36,24, 6, 4, 2, 0, 0, 0, 0)	68	2112712210100000000000	
181	7	10	61000	4	-29088(38,28, 4, 4, 2, 0, 0, 0, 0)	68	2112212210200000000000	
182	7	10	61000	4	-30336(39,30, 3, 4, 2, 0, 0, 0, 0)	68	2112712210300000000000	
183	7	10	61000	4	-15360(39,29, 5, 3, 2, 0, 0, 0, 0)	70	1121222310300000000000	
184	7	10	61000	2	-7872(40,31, 2, 7, 0, 0, 0, 0, 0)	70	1231201032320000000000	
185	7	10	61000	6	-20736(36,23, 8, 3, 2, 0, 0, 0, 0)	70	3122110221100000000000	
186	7	10	61000	6	-88416(38,27, 6, 3, 2, 0, 0, 0, 0)	70	3127110221200000000000	
187	7	10	61000	6	-92160(39,29, 5, 3, 2, 0, 0, 0, 0)	70	3122110221300000000000	
188	7	10	61000	6	-10368(36,24, 6, 4, 2, 0, 0, 0, 0)	68	2221110221100000000000	
189	7	10	61000	6	-44064(38,28, 4, 4, 2, 0, 0, 0, 0)	68	2221110221200000000000	
190	7	10	61000	6	-46080(39,30, 3, 4, 2, 0, 0, 0, 0)	68	2221110221300000000000	
191	7	10	61000	6	-20736(36,23, 8, 3, 2, 0, 0, 0, 0)	70	2112210321100000000000	
192	7	10	61000	6	-88128(38,27, 6, 3, 2, 0, 0, 0, 0)	70	2112210321200000000000	
193	7	10	61000	6	-92160(39,29, 5, 3, 2, 0, 0, 0, 0)	70	2112210321300000000000	
194	7	9	61000	2	-1728(36,24, 4, 8, 0, 0, 0, 0, 0)	70	1211200120100200000000	
195	7	9	61000	2	-7488(38,27, 4, 7, 0, 0, 0, 0, 0)	70	1211200230100200000000	
196	7	9	61000	2	-3456(36,24, 4, 8, 0, 0, 0, 0, 0)	70	1211200120200100000000	
197	7	9	61000	2	-7488(38,27, 4, 7, 0, 0, 0, 0, 0)	70	1211200320100200000000	
198	7	9	61000	2	-7488(38,27, 4, 7, 0, 0, 0, 0, 0)	70	1211200230200100000000	
199	7	9	61000	2	-1728(36,24, 4, 8, 0, 0, 0, 0, 0)	70	1211200210200100000000	
200	7	9	61000	2	-7488(38,27, 4, 7, 0, 0, 0, 0, 0)	70	1211200320200100000000	
201	7	9	61000	2	-1728(36,24, 4, 8, 0, 0, 0, 0, 0)	70	1212101000012200000000	
202	7	9	61000	2	-7344(38,28, 2, 8, 0, 0, 0, 0, 0)	70	1212102000012200000000	
203	7	9	61000	2	-7680(39,30, 1, 8, 0, 0, 0, 0, 0)	70	1212103000012200000000	
204	7	9	61000	12	-81216(36,23, 7, 5, 1, 0, 0, 0, 0)	70	2221112000100010000000	
205	7	9	61000	2	-1656(36,24, 4, 8, 0, 0, 0, 0, 0)	70	1121202010200100000000	
206	7	9	61000	2	-7296(38,27, 4, 7, 0, 0, 0, 0, 0)	70	1121203020200100000000	
(7,3)	1	7	10	51100	240	17256960(38,27, 7, 2, 1, 1, 0, 0, 0)	70	3121222111000000000000
	2	7	9	51100	24	4287168(40,31, 4, 3, 2, 0, 0, 0, 0)	70	2113122210000000000000
	3	7	9	51100	24	1093248(40,32, 2, 4, 2, 0, 0, 0, 0)	68	2112212210000000000000
	4	7	8	51100	16	208608(40,32, 0, 8, 0, 0, 0, 0, 0)	70	1121021202000000000000
(8,1)	1	8	28	80000	40320	40320(27, 8,12, 0, 6, 0, 0, 0, 1)	60	112122231121312211322322211
	2	8	25	80000	144	3456(30,13, 8, 5, 2, 1, 0, 1, 0)	62	1121222311213122113221220003
	3	8	25	80000	144	6912(30,13, 8, 5, 2, 1, 0, 1, 0)	62	1121222311213122113221300002
	4	8	25	80000	144	3456(30,13, 8, 5, 2, 1, 0, 1, 0)	62	1121222311213122113223220001
	5	8	24	80000	144	6912(30,12,10, 3, 4, 0, 0, 1, 0)	64	1211232321212123212113210000
	6	8	24	80000	144	3456(30,13, 8, 4, 4, 0, 0, 1, 0)	64	2112231321312122212112210000
	7	8	24	80000	144	3456(31,13,11, 2, 4, 0, 0, 1, 0)	66	1122133221122122312113220000
	8	8	24	80000	16	384(32,17, 6, 5, 1, 2, 1, 0, 0)	64	1122111223213212132002100322
	9	8	24	80000	16	384(32,16, 8, 4, 1, 2, 1, 0, 0)	64	121121232212311232002100323
	10	8	23	80000	240	11520(32,15, 9, 4, 3, 0, 0, 1, 0)	66	1121222311213122113220020300
	11	8	23	80000	240	11520(32,15, 9, 4, 3, 0, 0, 1, 0)	66	1121222311213122113220030200
	12	8	23	80000	240	5760(32,15, 9, 4, 3, 0, 0, 1, 0)	66	1121222311213122113223020000
	13	8	23	80000	240	5760(32,15, 9, 4, 3, 0, 0, 1, 0)	66	1121222311213122113222030000
	14	8	23	80000	16	768(32,16, 7, 6, 0, 2, 1, 0, 0)	66	1122111223213212132003200210
	15	8	23	80000	16	768(32,16, 7, 6, 0, 2, 1, 0, 0)	66	1211211232212311232003200210
	16	8	23	80000	16	384(32,16, 7, 6, 0, 2, 1, 0, 0)	66	1122111223213213221003200210
	17	8	23	80000	16	384(32,16, 7, 6, 0, 2, 1, 0, 0)	66	1211211232212312321003200210
	18	8	23	80000	4	192(33,19, 4, 6, 2, 1, 1, 0, 0)	66	1122112132231222132002100202
	19	8	23	80000	4	192(33,17, 8, 4, 2, 1, 1, 0, 0)	66	1211211232321221232002100303
	20	8	23	80000	4	192(33,18, 6, 5, 2, 1, 1, 0, 0)	66	12112121232321221232002100203
	21	8	23	80000	4	192(33,18, 6, 5, 2, 1, 1, 0, 0)	66	1122111223322122132002100302
	22	8	23	80000	4	192(32,17, 6, 4, 3, 1, 1, 0, 0)	64	1122112132322112132002100202
	23	8	23	80000	4	192(32,15,10, 2, 3, 1, 1, 0, 0)	66	1211211232232111232002100303
	24	8	23	80000	4	192(32,16, 8, 3, 3, 1, 1, 0, 0)	64	1211212123321211232002100203
	25	8	23	80000	4	192(32,16, 8, 3, 3, 1, 1, 0, 0)	64	1122111223231212132002100302
	26	8	23	80000	32	384(32,16, 8, 4, 0, 4, 0, 0, 0)	64	1122101223213211223002132001
	27	8	23	80000	32	384(32,16, 8, 4, 0, 4, 0, 0, 0)	64	1212101233212211233002122001
	28	8	23	80000	4	48(34,22, 4, 0, 6, 2, 0, 0, 0)	60	1121221220211331202201022202
	29	8	22	80000	4	192(33,17, 7, 6, 1, 1, 1, 0, 0)	68	1122112132231222132003200100
	30	8	22	80000	4	192(34,18, 8, 5, 1, 1, 1, 0, 0)	68	1211211232321221232003200200
	31	8	22	80000	4	192(33,17, 7, 6, 1, 1, 1, 0, 0)	68	12112121232321221232003200100
	32	8	22	80000	4	192(34,18, 8, 5, 1, 1, 1, 0, 0)	68	1122111223322122132003200200
	33	8	22	80000	4	192(33,18, 5, 7, 1, 1, 1, 0, 0)	68	1122112132231223221002100200
	34	8	22	80000	4	192(33,17, 7, 6, 1, 1, 1, 0, 0)	68	1122112132231223221003200100
	35	8	22	80000	4	192(33,17, 7, 6, 1, 1, 1, 0, 0)	68	1211211232321222321002100300
	36	8	22	80000	4	192(34,18, 8, 5, 1, 1, 1, 0, 0)	68	1211211232321222321003200200
	37	8	22	80000	4	192(33,18, 5, 7, 1, 1, 1, 0, 0)	68	1211212123232122321002100200
	38	8	22	80000	4	192(33,17, 7, 6, 1, 1, 1, 0, 0)	68	1211212123232122321003200100
	39	8	22	80000	4	192(33,17, 7, 6, 1, 1, 1, 0, 0)	68	1122111223322123221002100300
	40	8	22	80000	4	192(34,18, 8, 5, 1, 1, 1, 0, 0)	68	1122111223322123221003200200
	41	8	22	80000	4			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
63	8	22	80000	8	384(32,15,9,	4,2,1,1,0,0)	66	1211213212232111232002100003
64	8	22	80000	8	384(33,16,10,	3,2,1,1,0,0)	68	1211213212232111232003200002
65	8	22	80000	8	384(32,15,9,	4,2,1,1,0,0)	66	1122111223213212132003200001
66	8	22	80000	8	384(33,16,10,	3,2,1,1,0,0)	68	1211212123123211232003200002
67	8	22	80000	720	17280(32,14,11,	3,3,0,0,1,0)	68	1121222311213122113220000000
68	8	22	80000	720	17280(33,16,10,	3,3,0,0,1,0)	68	1121222311213122113220030000
69	8	22	80000	720	34560(33,16,10,	3,3,0,0,1,0)	68	1121222311213122113220000003
70	8	22	80000	720	5760(33,16,10,	3,3,0,0,1,0)	68	1121222311213122113220000000
71	8	22	80000	8	192(33,18,4,	8,2,0,1,0,0)	70	2112231321312121320001003202
72	8	22	80000	8	384(34,18,7,	6,2,0,1,0,0)	70	1212321231321122320001003203
73	8	22	80000	8	192(34,17,9,	5,2,0,1,0,0)	70	1211232321321212320002003202
74	8	22	80000	8	192(33,18,5,	6,3,0,1,0,0)	68	2112231321221211320001003202
75	8	22	80000	8	384(34,18,8,	4,3,0,1,0,0)	68	1212321231212212320001003203
76	8	22	80000	8	192(34,17,10,	3,3,0,1,0,0)	70	1211232321212122320002003202
77	8	22	80000	4	96(34,20,6,	2,4,2,0,0,0)	64	1121221220211332103301022200
78	8	22	80000	4	48(34,18,10,	0,4,2,0,0,0)	68	1121221220211332103302013300
79	8	22	80000	1	48(34,20,6,	2,4,2,0,0,0)	64	11212221131220212020202031003
80	8	22	80000	1	48(34,21,4,	3,4,2,0,0,0)	64	1121222113213021202031022002
81	8	22	80000	1	48(34,19,8,	1,4,2,0,0,0)	66	1121222113213021202032031003
82	8	22	80000	6	48(36,25,3,	0,7,1,0,0,0)	62	1121221220120221022223222000
83	8	22	80000	16	384(34,18,8,	4,2,2,0,0,0)	68	2112231321223001320011003232
84	8	22	80000	72	3456(30,11,12,	2,3,1,1,0,0)	66	2111323122221113120002210001
85	8	22	80000	72	3456(31,12,12,	3,2,1,1,0,0)	68	1211233212212112320003210001
86	8	22	80000	72	1728(31,12,12,	3,2,1,1,0,0)	68	1211233212212112320003210002
87	8	22	80000	72	1728(32,14,11,	3,2,1,1,0,0)	68	2111323122221112230002210002
88	8	22	80000	72	3456(31,13,9,	6,1,1,1,0,0)	68	2111323122223113120002210001
89	8	22	80000	72	3456(32,14,9,	7,0,1,1,0,0)	70	1211233212232112320003210001
90	8	22	80000	72	1728(32,14,9,	7,0,1,1,0,0)	70	1211233212232111230003210002
91	8	22	80000	72	1728(33,16,8,	7,0,1,1,0,0)	70	2111323122223112230002210002
92	8	22	80000	72	3456(31,13,10,	4,2,1,1,0,0)	66	2112232212132113120002210001
93	8	22	80000	72	3456(32,14,10,	5,1,1,1,0,0)	68	121232122123112320003210001
94	8	22	80000	72	3456(32,14,10,	5,1,1,1,0,0)	68	121232122321111230003210002
95	8	22	80000	72	3456(33,16,9,	5,1,1,1,0,0)	68	2112232212312112230002210002
96	8	22	80000	72	3456(31,13,10,	4,2,1,1,0,0)	66	2112232212312111320002210001
97	8	22	80000	72	3456(32,14,10,	5,1,1,1,0,0)	68	121232122321112320003210001
98	8	22	80000	8	384(33,18,5,	6,3,0,1,0,0)	68	1122132312322112130002102002
99	8	22	80000	8	192(33,16,9,	4,3,0,1,0,0)	68	1211233212232111230002103003
100	8	22	80000	8	192(33,18,5,	6,3,0,1,0,0)	68	1122132312322111230002102003
101	8	22	80000	8	192(33,17,8,	3,4,0,1,0,0)	66	112122322231112130002103002
102	8	22	80000	8	384(33,17,8,	3,4,0,1,0,0)	66	1212122322321111230002102003
103	8	22	80000	8	192(33,19,4,	5,4,0,1,0,0)	66	1212122322321112120002102002
104	8	22	80000	4	192(33,17,8,	4,1,3,0,0,0)	66	1121222131213002103223220010
105	8	22	80000	4	192(33,17,8,	4,1,3,0,0,0)	66	1212121231123001203223210020
106	8	22	80000	4	192(33,16,10,	3,1,3,0,0,0)	68	1122131221213001203223220010
107	8	22	80000	4	192(33,16,10,	3,1,3,0,0,0)	68	1211232121123002103233210020
108	8	22	80000	4	192(34,18,9,	3,1,3,0,0,0)	68	1121222131122002103233220020
109	8	22	80000	4	192(32,15,10,	2,2,3,0,0,0)	66	121212123121200120323210010
110	8	22	80000	4	192(34,19,7,	4,1,3,0,0,0)	66	1122131221122001203223220020
111	8	22	80000	4	192(32,16,8,	3,2,3,0,0,0)	64	1211232121212002103223210010
112	8	22	80000	6	144(35,21,4,	8,0,1,1,0,0)	70	2111121322312221322002000303
113	8	22	80000	6	288(34,19,6,	6,1,1,1,0,0)	68	211112132223111322002000303
114	8	22	80000	4	96(34,20,6,	2,4,2,0,0,0)	64	1121202133122211222002030001
115	8	22	80000	2	48(35,22,5,	1,6,1,0,0,0)	64	1122132312122001203021020322
116	8	21	80000	8	384(33,16,8,	6,2,0,1,0,0)	70	1122132312322112130003201000
117	8	21	80000	8	384(34,17,9,	5,2,0,1,0,0)	70	1211233212232111230003202000
118	8	21	80000	8	384(33,17,6,	7,2,0,1,0,0)	70	1122132312322111230003201000
119	8	21	80000	8	384(34,18,7,	6,2,0,1,0,0)	70	1122132312322111230003201000
120	8	21	80000	8	384(34,17,9,	5,2,0,1,0,0)	70	1122132312322111230003201000
121	8	21	80000	8	192(33,16,8,	6,2,0,1,0,0)	70	1122132312322112310003201000
122	8	21	80000	8	384(34,17,10,	3,3,0,1,0,0)	70	112122322231112130003202000
123	8	21	80000	8	384(33,16,9,	4,3,0,1,0,0)	68	1212122322321111230003201000
124	8	21	80000	8	384(34,18,8,	4,3,0,1,0,0)	68	1212122322321112320002102000
125	8	21	80000	8	384(33,17,7,	5,3,0,1,0,0)	68	1212122322321112120003201000
126	8	21	80000	8	384(34,17,10,	3,3,0,1,0,0)	70	1212122322321111230003201000
127	8	21	80000	8	192(33,16,9,	4,3,0,1,0,0)	68	12121223223211113210003201000
128	8	21	80000	12	576(32,14,11,	2,4,0,1,0,0)	68	1122132312122112130003200001
129	8	21	80000	12	576(33,15,12,	1,4,0,1,0,0)	70	1211233212212111230003200002
130	8	21	80000	12	576(33,16,10,	2,4,0,1,0,0)	68	1122132312122111230003200002
131	8	21	80000	12	576(32,15,9,	3,4,0,1,0,0)	66	1211233212212111230003200001
132	8	21	80000	12	576(33,16,8,	6,2,0,1,0,0)	70	1122132312322112130003200001
133	8	21	80000	12	576(34,17,9,	5,2,0,1,0,0)	70	1211233212232111230003200002
134	8	21	80000	12	576(34,18,7,	6,2,0,1,0,0)	70	1122132312322111220003200002
135	8	21	80000	12	576(33,17,6,	7,2,0,1,0,0)	70	1211233212232112120003200001
136	8	21	80000	12	576(33,16,9,	4,3,0,1,0,0)	68	112322122231112130003200001
137	8	21	80000	12	576(34,17,10,	3,3,0,1,0,0)	70	1212322122321111230003200002
138	8	21	80000	12	576(34,18,8,	4,3,0,1,0,0)	68	1123221222321111230003200002
139	8	21	80000	12	576(33,17,7,	5,3,0,1,0,0)	68	1212322122321112120003200001
140	8	21	80000	12	576(33,16,9,	4,3,0,1,0,0)	68	1123221222313112130003200001
141	8	21	80000	12	576(34,17,10,	3,3,0,1,0,0)	70	1212322122123111230003200002
142	8	21	80000	12	576(34,18,8,	4,3,0,1,0,0)	68	1123221222313111220003200002
143	8	21	80000	12	576(33,17,7,	5,3,0,1,0,0)	68	1212322122123112120003200001
144	8	21	80000	4	192(34,18,8,	4,2,2,0,0,0)	68	1122132130231203220102102200
145	8	21	80000	4	96(34,18,8,	4,2,2,0,0,0)	68	11221321302312032201020200
146	8	21	80000	4	96(34,18,8,	4,2,2,0,0,0)	68	1122132130322103220102102200
147	8	21	80000	4	192(35,19,9,	3,2,2,0,0,0)	70	1121222130322202310202103200
148	8	21	80000	4	192(35,19,9,	3,2,2,0,0,0)	70	1211232120321202320202103200
149	8	21	80000	4	192(33,16,10,	2,3,2,0,0,0)	68	1121222130231102310202103200
150	8	21	80000	4	192(33,16,10,	2,3,2,0,0,0)	68	1121222130232203220102103200
151	8	21	80000	4	192(35,19,9,	3,2,2,0,0,0)	70	1211232120232102320202103200
152	8	21	80000	4	192(35,19,9,	3,2,2,0,0,0)	70	1211232120232102320202103200
153	8	21	80000	4	192(33,16,10,	2,3,2,0,0,0)	68	1121222130231103220102103200
154	8	21	80000	4	192(33,16,10,	2,3,2,0,0,0)	68	1211232120232103210102103200
155	8	21	80000	4	192(34,17,11,	1,3,2,0,0,0)	70	1121221220322223210102103200
156	8	21	80000	4	192(34,19,7,	3,3,2,0,0,0)	66	1212122120232203210102102200
157	8	21	80000	4	96(32,14,12,	0,4,2,0,0,0)	68	112122120321102310102103200
158	8	21	80000	4	96(32,16,8,	0,4,2,0,0,0)	64	1212122120321103210102102200
159	8	21	80000	4	96(36,22,6,	4,2,2,0,0,0)	68	1212122120232202320202102200
160	8	21	80000	6	144(35,20,6,	7,0,1,1,0,0)	70	2111121322312221322003000200
161	8	21	80000	6	288(35,20,6,	7,0,1,1,0,0)	70	1211211232321222321002000300
162	8	21	80000	6	288(35,20,6,	7,0,1,1,0,0)	70	1211211232321222321003000200
163	8	21	80000	6	144(35,20,6,	7,0,1,1,0,0)	70	1122111223322123221002000300
164	8	21	80000	6	144(35,20,6,	7,0,1,1,0,0)	70	1122111223322123221003000200
165	8	21	80000	6	288(34,18,8,	5,1,1,1,0,0)	68	2111121322223111322003000200

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
166	8	21	80000	6	288(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211211232232112321002000300
167	8	21	80000	6	288(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211211232232112321003000200
168	8	21	80000	6	288(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211211232232112321002000300
169	8	21	80000	6	288(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211211232232112321003000200
170	8	21	80000	6	288(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122111223231213221002000300
171	8	21	80000	6	288(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122111223231213221003000200
172	8	21	80000	4	192(32,16,	6, 6, 3, 0, 1, 0, 0)	68	1122111223231213221003000200
173	8	21	80000	4	384(34,18,	8, 4, 3, 0, 1, 0, 0)	68	2111323122221111320001002002
174	8	21	80000	4	192(33,16,	9, 4, 3, 0, 1, 0, 0)	68	2111323122221111320002003003
175	8	21	80000	4	192(34,17,	10, 3, 3, 0, 1, 0, 0)	70	1211233212212112320001002003
176	8	21	80000	4	192(35,20,	6, 6, 2, 0, 1, 0, 0)	70	1211233212212112320002003002
177	8	21	80000	4	192(33,17,	6, 7, 2, 0, 1, 0, 0)	70	2111322231221121320002003003
178	8	21	80000	4	192(34,18,	7, 6, 2, 0, 1, 0, 0)	70	2112232212312111320001003002
179	8	21	80000	4	192(34,17,	9, 5, 2, 0, 1, 0, 0)	70	2112232212312111320002003003
180	8	21	80000	4	192(34,17,	9, 5, 2, 0, 1, 0, 0)	70	1212322122321112320001003003
181	8	21	80000	4	192(35,21,	4, 7, 2, 0, 1, 0, 0)	70	1212322122321112320002002002
182	8	21	80000	4	96(34,19,	6, 5, 3, 0, 1, 0, 0)	68	11212222312111220002003003
183	8	21	80000	1	48(35,21,	6, 3, 3, 2, 0, 0, 0)	66	1121222113122031202023020000
184	8	21	80000	1	48(34,18,	9, 2, 3, 2, 0, 0, 0)	68	1121222113122032103032031000
185	8	21	80000	1	48(35,19,	10, 1, 3, 2, 0, 0, 0)	70	1121222113122032103033020000
186	8	21	80000	1	48(34,19,	7, 3, 3, 2, 0, 0, 0)	66	1121222113122032103033020000
187	8	21	80000	1	48(35,20,	8, 2, 3, 2, 0, 0, 0)	68	1121222113122032103033020000
188	8	21	80000	1	48(34,20,	5, 4, 3, 2, 0, 0, 0)	66	1121222113122032103033020000
189	8	21	80000	1	48(34,19,	7, 3, 3, 2, 0, 0, 0)	66	1121222113122032103033020000
190	8	21	80000	1	48(34,19,	7, 3, 3, 2, 0, 0, 0)	66	1121222113122032103033020000
191	8	21	80000	1	48(35,20,	8, 2, 3, 2, 0, 0, 0)	68	1121222113122032103033020000
192	8	21	80000	2	96(36,23,	5, 2, 5, 1, 0, 0, 0)	66	1121221220322202103301022200
193	8	21	80000	2	48(36,21,	9, 0, 5, 1, 0, 0, 0)	70	1121221220322202103302013300
194	8	21	80000	2	96(35,21,	6, 3, 3, 2, 0, 0, 0)	66	1121221220322202103302013300
195	8	21	80000	2	96(34,19,	7, 3, 3, 2, 0, 0, 0)	66	1121222131122002103232030010
196	8	21	80000	2	96(35,20,	8, 2, 3, 2, 0, 0, 0)	68	1121222131122002103232030010
197	8	21	80000	4	192(33,17,	7, 5, 2, 2, 0, 0, 0)	68	2112231321132002210011003220
198	8	21	80000	4	192(34,17,	10, 3, 2, 2, 0, 0, 0)	70	2111322231132002210012003230
199	8	21	80000	4	192(34,18,	7, 6, 1, 2, 0, 0, 0)	70	1212321231123003210021003220
200	8	21	80000	4	192(35,19,	8, 5, 1, 2, 0, 0, 0)	70	2112231321223002210021003230
201	8	21	80000	4	192(34,17,	9, 5, 1, 2, 0, 0, 0)	70	1212321231232003210011003230
202	8	21	80000	2	96(35,21,	6, 2, 5, 1, 0, 0, 0)	66	1122132312122002103031020320
203	8	21	80000	2	48(35,21,	6, 2, 5, 1, 0, 0, 0)	66	1122132312122002103031020320
204	8	21	80000	1	48(36,22,	6, 3, 4, 1, 0, 0, 0)	68	11221323121220301220022030230
205	8	21	80000	1	48(35,20,	7, 3, 4, 1, 0, 0, 0)	68	11221323121220301220022030230
206	8	21	80000	4	48(36,24,	4, 0, 8, 0, 0, 0, 0)	64	1101221222122202330102330010
207	8	21	80000	48	1152(33,16,	8, 7, 0, 1, 1, 0, 0)	70	1122113221122323221000000310
208	8	21	80000	48	2304(34,18,	7, 7, 0, 1, 1, 0, 0)	70	1122111223322123221000000270
209	8	21	80000	48	1152(33,16,	8, 7, 0, 1, 1, 0, 0)	70	1122111223322123221000000270
210	8	21	80000	48	2304(33,16,	8, 7, 0, 1, 1, 0, 0)	70	1122111223322123221000000310
211	8	21	80000	48	2304(34,18,	7, 7, 0, 1, 1, 0, 0)	70	1122111223322123221000000270
212	8	21	80000	48	2304(32,15,	8, 6, 1, 1, 1, 0, 0)	68	1122112312122313221000000210
213	8	21	80000	48	4608(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122112312122313221000000320
214	8	21	80000	48	2304(32,15,	8, 6, 1, 1, 1, 0, 0)	68	1122111223231213221000000210
215	8	21	80000	48	4608(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122111223231213221000000320
216	8	21	80000	48	2304(32,15,	8, 6, 1, 1, 1, 0, 0)	68	1122113221231213221000000210
217	8	21	80000	48	4608(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122113221231213221000000320
218	8	21	80000	48	2304(32,15,	8, 6, 1, 1, 1, 0, 0)	68	1122117312322113221000000320
219	8	21	80000	48	4608(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122117312322113221000000320
220	8	21	80000	8	384(35,20,	6, 7, 0, 1, 1, 0, 0)	70	1122117312322113221000000320
221	8	21	80000	8	384(35,20,	6, 7, 0, 1, 1, 0, 0)	70	1211211232321223210032000000
222	8	21	80000	8	384(35,20,	6, 7, 0, 1, 1, 0, 0)	70	1211211232321223210032000000
223	8	21	80000	8	384(35,20,	6, 7, 0, 1, 1, 0, 0)	70	1122111223322123221003200000
224	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122111223322123221003200000
225	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	12112121232212321003200000
226	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211211232232112321003200000
227	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122112132322113221003200000
228	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122117312322112320032000000
229	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211213212232111232003200000
230	8	21	80000	8	384(32,15,	8, 6, 1, 1, 1, 0, 0)	68	1122112312322113221002100000
231	8	21	80000	8	768(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122112312322113221003200000
232	8	21	80000	8	384(32,15,	8, 6, 1, 1, 1, 0, 0)	68	1211213212232111232100320000
233	8	21	80000	8	768(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211213212232111232100320000
234	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1122111223213213221003200000
235	8	21	80000	8	384(34,18,	8, 5, 1, 1, 1, 0, 0)	68	1211212123212321232100320000
236	8	21	80000	8	384(32,15,	9, 4, 1, 3, 0, 0, 0)	66	1121222131213001220013202100
237	8	21	80000	8	384(32,15,	9, 4, 1, 3, 0, 0, 0)	66	1211232121123002120013202100
238	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	1121222131213003220013202100
239	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	1211232121123003220013202100
240	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	1121222131213003220013202100
241	8	21	80000	8	384(34,18,	8, 5, 0, 3, 0, 0, 0)	68	1121222131213003220013202100
242	8	21	80000	8	384(34,18,	8, 5, 0, 3, 0, 0, 0)	68	1211232121232002120023202100
243	8	21	80000	8	384(32,15,	9, 4, 1, 3, 0, 0, 0)	66	11212221312122002310013202100
244	8	21	80000	8	384(32,15,	9, 4, 1, 3, 0, 0, 0)	66	1211232121212003210013202100
245	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	11212221312122002310013202100
246	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	12112221312122002310013202100
247	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	1211232121232003210012103200
248	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	1211232121232003210012103200
249	8	21	80000	8	384(33,16,	9, 5, 0, 3, 0, 0, 0)	68	1211232120210322210032001100
250	8	21	80000	8	384(35,19,	9, 3, 2, 2, 0, 0, 0)	70	1121221220210332220032002100
251	8	21	80000	8	384(33,16,	10, 2, 3, 2, 0, 0, 0)	68	1122132130210223221003200110
252	8	21	80000	8	384(35,19,	9, 3, 2, 2, 0, 0, 0)	70	1212121230210232322003200210
253	8	21	80000	8	192(34,18,	8, 4, 2, 2, 0, 0, 0)	68	1122131220210232312003200210
254	8	21	80000	8	192(34,18,	8, 4, 2, 2, 0, 0, 0)	68	1122131220210232312003200210
255	8	21	80000	8	96(32,14,	12, 0, 4, 2, 0, 0, 0)	68	1121222130210322311003200110
256	8	21	80000	8	192(34,17,	11, 1, 3, 2, 0, 0, 0)	70	1121222130210322312003200110
257	8	21	80000	8	192(34,17,	7, 3, 3, 2, 0, 0, 0)	66	1212121220210222322003200110
258	8	21	80000	8	96(32,16,	8, 2, 4, 2, 0, 0, 0)	64	1212121220210222311003200110
259	8	21	80000	8	96(36,22,	6, 4, 2, 2, 0, 0, 0)	68	1121221220210222322003200220
260	8	21	80000	8	384(33,17,	6, 7, 2, 0, 1, 0, 0)	70	2112231321312121320002002100
261	8	21	80000	8	384(33,16,	8, 6, 2, 0, 1, 0, 0)	70	2111222313122113200030021000
262	8	21	80000	8	384(34,18,	7, 6, 2, 0, 1, 0, 0)	70	1212321231321122320002002100
263	8	21	80000	8	192(33,18,	4, 8, 2, 0, 1, 0, 0)	70	2112231321312122210002002100
264	8	21	80000	8	384(33,17,	6, 7, 2, 0, 1, 0, 0)	70	1212321231321122320002002100
265	8	21	80000	8	384(34,17,	9, 5, 2, 0, 1, 0, 0)	70	1211232321321212320003002100
266	8	21	80000	8	192(33,16,	8, 6, 2, 0, 1, 0, 0)	70	12112323213212123210003002100
267	8	21	80000	8	384(33,17,	7, 5, 3, 0, 1, 0, 0)	68	2112231321221211320002002100

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
269	8	21	80000	8	384(33,16,9,4,3,0,1,0,0)	68	2111322231221121320003002100	
270	8	21	80000	8	384(34,18,8,4,3,0,1,0,0)	68	1212321231212212320002002100	
271	8	21	80000	8	192(33,18,5,6,3,0,1,0,0)	68	21122313212212210002002100	
272	8	21	80000	8	384(33,17,7,5,3,0,1,0,0)	68	12123212312122123210002002100	
273	8	21	80000	8	384(34,17,10,3,3,0,1,0,0)	70	1211232321212122320003002100	
274	8	21	80000	8	192(33,16,9,4,3,0,1,0,0)	68	1211232321212122320003002100	
275	8	21	80000	12	288(35,20,6,7,0,1,1,0,0)	70	2111121322312221322003000002	
276	8	21	80000	12	576(34,18,8,5,1,1,1,0,0)	68	2111123122223111322002000003	
277	8	21	80000	12	576(34,18,8,5,1,1,1,0,0)	68	2111123122223111322002000002	
278	8	21	80000	12	576(34,18,8,5,1,1,1,0,0)	68	2111121322231113220030000002	
279	8	21	80000	12	288(35,20,6,7,0,1,1,0,0)	70	2111122213223121322002000003	
280	8	21	80000	12	288(35,20,6,7,0,1,1,0,0)	70	2111122213223121322002000002	
281	8	21	80000	4	96(36,22,6,4,2,2,0,0,0)	68	1121202133122212133002033000	
282	8	21	80000	2	48(34,19,7,3,3,2,0,0,0)	66	1121222113122032301002031002	
283	8	21	80000	2	96(34,19,7,3,3,2,0,0,0)	66	1121222113231021202002031002	
284	8	21	80000	2	96(34,19,7,3,3,2,0,0,0)	66	1121222113231021202002031002	
285	8	21	80000	2	48(34,21,3,5,3,2,0,0,0)	66	1121222113322011202001022002	
286	8	21	80000	2	96(34,19,7,3,3,2,0,0,0)	66	1121222113322011202001022002	
287	8	21	80000	2	48(34,19,7,3,3,2,0,0,0)	66	1121222113322012301002031002	
288	8	21	80000	2	96(36,23,4,5,2,2,0,0,0)	68	1122112132122301200322030003	
289	8	21	80000	2	48(34,20,4,6,2,2,0,0,0)	68	1122112132213201200331020002	
290	8	21	80000	2	96(36,22,6,4,2,2,0,0,0)	68	1122112132213201200332030003	
291	8	21	80000	2	96(35,21,5,5,2,2,0,0,0)	68	1122112132122302300201020023	
292	8	21	80000	2	48(34,20,4,6,2,2,0,0,0)	68	1122112132213201200301020032	
293	8	21	80000	2	96(35,20,7,4,2,2,0,0,0)	68	1122112132213201200302030003	
294	8	21	80000	2	96(35,20,7,4,2,2,0,0,0)	68	1122131221120322310002030032	
295	8	21	80000	1	48(36,23,5,2,5,1,0,0,0)	66	112122122012022322002030130	
296	8	21	80000	1	48(34,20,6,1,6,1,0,0,0)	64	1121221220120223110202030130	
297	8	21	80000	1	48(35,22,4,3,5,1,0,0,0)	66	1122131220120323221001020220	
298	8	21	80000	1	48(35,20,8,1,5,1,0,0,0)	68	1122131220120323221002030130	
299	8	21	80000	1	48(35,20,8,1,5,1,0,0,0)	68	112213122012032212002030130	
300	8	21	80000	2	48(36,23,4,4,4,1,0,0,0)	68	1212122322123001203021000322	
301	8	21	80000	2	96(35,20,7,3,4,1,0,0,0)	68	121232123112300100322300013	
302	8	21	80000	72	1728(32,14,11,2,4,0,1,0,0)	68	1213212121123213210000003210	
303	8	21	80000	72	3456(33,15,12,1,4,0,1,0,0)	70	1122131221231213210000003210	
304	8	21	80000	72	3456(32,15,9,3,4,0,1,0,0)	66	1211233212212113210000002210	
305	8	21	80000	72	1728(32,14,11,2,4,0,1,0,0)	68	1211232121321213210000003210	
306	8	21	80000	72	1728(33,16,10,2,4,0,1,0,0)	68	1122132312122113220000002210	
307	8	21	80000	72	864(32,16,7,4,4,0,1,0,0)	66	2111323122211122100000002210	
308	8	21	80000	72	1728(33,16,8,6,2,0,1,0,0)	70	1213212321123213210000003210	
309	8	21	80000	72	3456(33,17,6,7,2,0,1,0,0)	70	1211233212232113210000002210	
310	8	21	80000	72	3456(34,17,9,5,2,0,1,0,0)	70	1122133221231213220000003210	
311	8	21	80000	72	1728(33,16,8,6,2,0,1,0,0)	70	1211232321321213210000003210	
312	8	21	80000	72	864(33,18,4,8,2,0,1,0,0)	70	2111323122223112210000002210	
313	8	21	80000	72	1728(34,18,7,6,2,0,1,0,0)	70	1122132312322113220000002210	
314	8	21	80000	72	3456(33,17,7,5,3,0,1,0,0)	68	1212321221231132100000002210	
315	8	21	80000	72	1728(33,16,9,4,3,0,1,0,0)	68	1212121231232213210000003210	
316	8	21	80000	72	3456(33,16,9,4,3,0,1,0,0)	68	1212321231212213210000003210	
317	8	21	80000	72	3456(34,17,10,3,3,0,1,0,0)	70	1121222311322213220000003210	
318	8	21	80000	72	1728(33,18,5,6,3,0,1,0,0)	68	2112232212312112210000002210	
319	8	21	80000	72	3456(33,17,7,5,3,0,1,0,0)	68	1212321223211132100000002210	
320	8	21	80000	72	3456(34,18,8,4,3,0,1,0,0)	68	1123221222231113220000002210	
321	8	21	80000	72	3456(34,17,10,3,3,0,1,0,0)	70	112322311122213220000003210	
322	8	21	80000	72	1728(33,16,9,4,3,0,1,0,0)	68	1212321211212213210000003210	
323	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1122132312213001220013201000	
324	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1122132312122002310013201000	
325	8	20	80000	4	192(34,17,9,5,1,2,0,0,0)	70	1122132312322002310012102000	
326	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1122133221213001220013201000	
327	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1122133221122002310013201000	
328	8	20	80000	4	192(34,17,9,5,1,2,0,0,0)	70	1122133221322002310012102000	
329	8	20	80000	4	192(33,15,12,1,3,2,0,0,0)	70	1121222311213001220013201000	
330	8	20	80000	4	192(32,14,11,2,3,2,0,0,0)	68	1212123211123002120013201000	
331	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1212123211123002320013201000	
332	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	121212321112300310023201000	
333	8	20	80000	4	192(34,17,10,3,2,2,0,0,0)	70	1212123211232002120023201000	
334	8	20	80000	4	192(33,15,12,1,3,2,0,0,0)	70	1121222311122002310013202000	
335	8	20	80000	4	192(32,14,11,2,3,2,0,0,0)	68	121212321121200310013201000	
336	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1121222311322002310012103000	
337	8	20	80000	4	192(33,16,9,4,2,2,0,0,0)	68	1212123211232003210012102000	
338	8	20	80000	4	192(33,15,11,3,2,2,0,0,0)	70	1212123211232003210013201000	
339	8	20	80000	4	192(34,17,10,3,2,2,0,0,0)	70	1212123221230002120013201000	
340	8	20	80000	4	192(34,17,10,3,2,2,0,0,0)	70	1212122322212003210013201000	
341	8	20	80000	4	192(35,19,8,5,1,2,0,0,0)	70	1212122322232003210012102000	
342	8	20	80000	8	192(34,18,8,4,2,2,0,0,0)	68	1122112132213203200103200010	
343	8	20	80000	8	384(35,19,9,3,2,2,0,0,0)	70	1122112132213202300203200010	
344	8	20	80000	8	384(35,19,9,3,2,2,0,0,0)	70	1122111223213203200203200010	
345	8	20	80000	8	192(34,18,8,4,2,2,0,0,0)	68	1122111223213202300103200010	
346	8	20	80000	16	768(33,15,11,3,2,2,0,0,0)	70	1122132130122012302003201001	
347	8	20	80000	16	768(33,15,11,3,2,2,0,0,0)	70	1122133220231012102003201001	
348	8	20	80000	16	768(33,16,9,4,2,2,0,0,0)	68	1212121230212012302003201001	
349	8	20	80000	16	768(34,17,9,5,1,2,0,0,0)	70	121212123032012302003201001	
350	8	20	80000	16	768(34,17,9,5,1,2,0,0,0)	70	1212122320212022302003201001	
351	8	20	80000	16	768(35,19,8,5,1,2,0,0,0)	68	1212122320321012102003201001	
352	8	20	80000	16	768(33,16,9,4,2,2,0,0,0)	68	1212122320321012102003201001	
353	8	20	80000	16	384(34,17,9,5,1,2,0,0,0)	70	1212122320321012302003201001	
354	8	20	80000	4	192(32,14,10,4,3,0,1,0,0)	68	2111323122221111320002001000	
355	8	20	80000	4	384(34,17,10,3,3,0,1,0,0)	70	2111323122221111320002001000	
356	8	20	80000	4	192(32,15,8,5,3,0,1,0,0)	68	2111323122221111320002001000	
357	8	20	80000	4	384(34,18,8,4			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
372	8	20	80000	4	192(33,16,8,6,2,0,1,0,0)	70	2112232212312112210001003000	
373	8	20	80000	4	384(34,18,7,6,2,0,1,0,0)	70	2112232212312112210002002000	
374	8	20	80000	4	192(33,16,8,6,2,0,1,0,0)	70	2112232212312112210003001000	
375	8	20	80000	4	192(33,15,10,5,2,0,1,0,0)	70	1212322122321113210001003000	
376	8	20	80000	4	384(34,17,9,5,2,0,1,0,0)	70	1212322122321113210002002000	
377	8	20	80000	4	192(33,15,10,5,2,0,1,0,0)	70	1212322122321113210003001000	
378	8	20	80000	4	192(35,20,6,6,2,0,1,0,0)	70	112122322223111220003002000	
379	8	20	80000	4	192(35,19,8,5,2,0,1,0,0)	70	112122322223111220003002000	
380	8	20	80000	4	192(35,19,8,5,2,0,1,0,0)	70	112122322223111220003002000	
381	8	20	80000	4	192(35,19,8,5,2,0,1,0,0)	70	112122322223111220003002000	
382	8	20	80000	4	192(35,19,8,5,2,0,1,0,0)	70	112122322223111220003002000	
383	8	20	80000	4	96(34,18,8,4,3,0,1,0,0)	68	112122213123112220003002000	
384	8	20	80000	4	192(34,17,10,3,3,0,1,0,0)	70	1121222131231122210002003000	
385	8	20	80000	4	192(34,17,10,3,3,0,1,0,0)	70	1121222131231122210003002000	
386	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	11212221132122033202002031000	
387	8	20	80000	2	96(34,18,8,4,2,2,0,0,0)	68	11212221132122033202002031000	
388	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	11212221132122033202002031000	
389	8	20	80000	2	96(35,20,7,4,2,2,0,0,0)	68	11212221132122033202002031000	
390	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	11212221132122033202002031000	
391	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	11212221132122033202002031000	
392	8	20	80000	2	96(34,19,6,5,2,2,0,0,0)	68	112122211322012103001022000	
393	8	20	80000	2	96(35,20,7,4,2,2,0,0,0)	68	112122211322012103001022000	
394	8	20	80000	2	96(34,18,8,4,2,2,0,0,0)	68	112122211322012103002031000	
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396	8	20	80000	2	48(34,18,8,4,2,2,0,0,0)	68	112122211322012103002031000	
397	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	112122211322012103002031000	
398	8	20	80000	2	48(37,24,5,3,4,1,0,0,0)	68	1121223222122001202020302000	
399	8	20	80000	2	96(36,21,8,2,4,1,0,0,0)	70	1121223222122002103032031000	
400	8	20	80000	2	48(36,22,6,3,4,1,0,0,0)	68	1121223222122002103032031000	
401	8	20	80000	2	96(36,21,8,2,4,1,0,0,0)	70	1121223222122002103032031000	
402	8	20	80000	2	96(36,21,8,2,4,1,0,0,0)	70	1121223222122002103032031000	
403	8	20	80000	2	96(36,22,6,4,2,2,0,0,0)	68	1121222131210321130022030000	
404	8	20	80000	2	96(36,22,6,4,2,2,0,0,0)	68	1121222131210321130022030000	
405	8	20	80000	12	576(34,18,7,6,2,0,1,0,0)	70	1122132112322112300001020003	
406	8	20	80000	12	576(35,19,8,5,2,0,1,0,0)	70	1122312112322112300002030002	
407	8	20	80000	12	576(35,19,8,5,2,0,1,0,0)	70	1122111223231212300002030002	
408	8	20	80000	12	288(35,19,8,5,2,0,1,0,0)	70	1122132312122112300002030002	
409	8	20	80000	2	96(37,23,6,5,1,2,0,0,0)	70	1122131221120323220002030003	
410	8	20	80000	4	192(33,17,6,7,1,2,0,0,0)	70	2111321320312202210101002200	
411	8	20	80000	4	384(35,19,8,5,1,2,0,0,0)	70	2111321320312202210102003300	
412	8	20	80000	4	96(32,16,6,6,2,2,0,0,0)	68	2111321320221102210101002200	
413	8	20	80000	4	192(34,18,8,4,2,2,0,0,0)	68	2111321320221102210102003300	
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415	8	20	80000	4	192(34,18,7,6,1,2,0,0,0)	70	2112231320221202210101003200	
416	8	20	80000	4	192(35,19,8,5,1,2,0,0,0)	70	2111322230221102210202002020	
417	8	20	80000	4	192(33,16,8,6,1,2,0,0,0)	70	2112231320312102210101003200	
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419	8	20	80000	4	192(36,21,7,5,1,2,0,0,0)	70	112122122032220210102003300	
420	8	20	80000	4	96(34,18,8,4,2,2,0,0,0)	68	1121221220231102310102003300	
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422	8	20	80000	2	96(34,19,6,5,2,2,0,0,0)	68	1122131221122002302102030010	
423	8	20	80000	2	96(35,20,7,4,2,2,0,0,0)	68	1122131221122002302102030020	
424	8	20	80000	2	96(34,19,6,5,2,2,0,0,0)	68	1121222131122003202102030010	
425	8	20	80000	2	96(35,20,7,4,2,2,0,0,0)	68	1121222131122003202102030020	
426	8	20	80000	2	96(34,18,8,4,2,2,0,0,0)	68	112213122123100210302020010	
427	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	1122131221231002302102030020	
428	8	20	80000	2	96(34,18,8,4,2,2,0,0,0)	68	1122131221231002302102030010	
429	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	1121222131231002103202030020	
430	8	20	80000	2	96(34,18,8,4,2,2,0,0,0)	68	1121222131231002103202030010	
431	8	20	80000	2	96(35,19,9,3,2,2,0,0,0)	70	1121222131231003202102030020	
432	8	20	80000	2	96(34,18,8,4,2,2,0,0,0)	68	1121222131231003202102030010	
433	8	20	80000	1	48(37,24,5,3,4,1,0,0,0)	68	1121221220322202102020302000	
434	8	20	80000	1	48(36,21,8,2,4,1,0,0,0)	70	1121221220322202103020301000	
435	8	20	80000	1	48(35,21,6,2,5,1,0,0,0)	66	1121221220231101202203020200	
436	8	20	80000	1	48(34,18,9,1,5,1,0,0,0)	68	1121221220231102103302030100	
437	8	20	80000	1	48(35,19,10,0,5,1,0,0,0)	70	1121221220231102103302030200	
438	8	20	80000	1	48(35,20,7,3,4,1,0,0,0)	68	1122131220322101203202010300	
439	8	20	80000	1	48(36,21,8,2,4,1,0,0,0)	70	1122131220322101203202020300	
440	8	20	80000	1	48(35,21,5,4,4,1,0,0,0)	68	11221312203221023010202000	
441	8	20	80000	1	48(35,20,7,3,4,1,0,0,0)	68	11221312203221023020203000	
442	8	20	80000	1	48(35,20,7,3,4,1,0,0,0)	68	11221312203221023020300100	
443	8	20	80000	1	48(36,21,8,2,4,1,0,0,0)	70	11221312203221023020302000	
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445	8	20	80000	1	48(35,20,7,3,4,1,0,0,0)	68	1122131220231202102302030100	
446	8	20	80000	1	48(36,21,8,2,4,1,0,0,0)	70	1122131220231202102302030200	
447	8	20	80000	2	48(36,21,7,4,3,1,0,0,0)	70	1122132312120301020323200000	
448	8	20	80000	4	192(34,19,7,2,5,1,0,0,0)	66	1121221220231012301002031002	
449	8	20	80000	4	96(36,22,6,3,4,1,0,0,0)	68	1121223220122022301002031002	
450	8	20	80000	4	96(35,20,7,3,4,1,0,0,0)	68	1121222130231022301002031002	
451	8	20	80000	4	192(35,20,7,3,4,1,0,0,0)	68	1121223220231011202002031003	
452	8	20	80000	4	192(35,20,7,3,4,1,0,0,0)	68	1121223220231012301002031002	
453	8	20	80000	8	192(36,22,6,2,6,0,0,0,0)	68	1101222331233102330001220001	
454	8	20	80000	1	48(37,23,6,4,3,1,0,0,0)	70	1212122322123001203022000230	
455	8	20	80000	1	48(36,22,5,5,3,1,0,0,0)	70	121212232212300210202031000230	
456	8	20	80000	1	48(37,23,6,4,3,1,0,0,0)	70	121212232212300210202031000230	
457	8	20	80000	2	96(36,21,7,4,3,1,0,0,0)	70	1212321231123001003223200020	
458	8	20	80000	6	144(35,19,8,5,1,2,0,0,0)	70	1231211212103222300033200001	
459	8	20	80000	1	48(35,20,6,5,3,1,0,0,0)	70	12112312303212023000101002203	
460	8	20	80000	1	48(34,19,6,4,4,1,0,0,0)	68	12112312303212023000101002203	
461	8	20	80000	1	48(35,19,9,2,4,1,0,0,0)	70	12112312303212023000102003302	
462	8	20	80000	1	48(35,21,4,6,3,1,0,0,0)	70	1212321230321101200201003202	
463	8	20	80000	1	48(35,			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	COOE	TERM	GRAPH MATRIX
475	8	20	80000	12	576134,17,10,	3, 3, 0, 1, 0, 0)	70	1212123211123123210000003200
476	8	20	80000	12	576134,17,10,	3, 3, 0, 1, 0, 0)	70	1213212121123213210000003200
477	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1212121231232123210000003200
478	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1211232121232123210000003200
479	8	20	80000	12	576135,20,	6, 6, 2, 0, 1, 0, 0)	70	2112213121223212210000003200
480	8	20	80000	12	576135,20,	6, 6, 2, 0, 1, 0, 0)	70	2113122211223122210000003200
481	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1212123211232213210000003200
482	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1213212121232123210000003200
483	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1212321231212213210000003200
484	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1211232321212123210000003200
485	8	20	80000	12	576135,20,	6, 6, 2, 0, 1, 0, 0)	70	2112233121221212210000003200
486	8	20	80000	12	576135,20,	6, 6, 2, 0, 1, 0, 0)	70	2113122231221122210000003200
487	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1212323211212213210000003200
488	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1213212321212123210000003200
489	8	20	80000	8	384134,19,	6, 5, 2, 2, 0, 0, 0)	68	1211212321212123210000003200
490	8	20	80000	8	192134,20,	4, 6, 2, 2, 0, 0, 0)	68	121121232322102100200021020
491	8	20	80000	8	384135,20,	7, 4, 2, 2, 0, 0, 0)	68	12112123232103200200021020
492	8	20	80000	8	384134,19,	6, 5, 2, 2, 0, 0, 0)	68	1122112132322102100200032010
493	8	20	80000	8	384134,18,	8, 4, 2, 2, 0, 0, 0)	68	121121232232102100300032010
494	8	20	80000	8	384135,19,	9, 3, 2, 2, 0, 0, 0)	70	121121232232103200200032010
495	8	20	80000	8	192134,18,	8, 4, 2, 2, 0, 0, 0)	68	1122112132322103200100032010
496	8	20	80000	8	192134,18,	8, 4, 2, 2, 0, 0, 0)	68	112211223231202100300021030
497	8	20	80000	8	384135,19,	9, 3, 2, 2, 0, 0, 0)	70	112211223231202100300032020
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507	8	20	80000	12	576134,17,10,	3, 3, 0, 1, 0, 0)	70	1122132312122112310003200000
508	8	20	80000	12	576134,17,10,	3, 3, 0, 1, 0, 0)	70	1211233212212113210003200000
509	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1123221222231112310003200000
510	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1212322122321113210003200000
511	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1123221222231113210003200000
512	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	1212322122123113210003200000
513	8	20	80000	96	9216132,14,10,	4, 3, 0, 1, 0, 0)	68	1233211212212113200002100001
514	8	20	80000	96	2304130,10,13,	2, 4, 0, 1, 0, 0)	68	1233211212212113200002100001
515	8	20	80000	96	9216133,15,11,	3, 3, 0, 1, 0, 0)	70	1233211212212113200002100002
516	8	20	80000	96	4608132,13,11,	5, 2, 0, 1, 0, 0)	70	2132212212312112200003100001
517	8	20	80000	4	192134,19,	6, 5, 2, 2, 0, 0, 0)	68	11221121323221021002003200001
518	8	20	80000	4	192135,20,	7, 4, 2, 2, 0, 0, 0)	68	121121232232101200203200002
519	8	20	80000	4	192135,19,	9, 3, 2, 2, 0, 0, 0)	70	1122112132322101200303200002
520	8	20	80000	4	192134,18,	8, 4, 2, 2, 0, 0, 0)	68	121121232232102100303200001
521	8	20	80000	4	192134,19,	6, 5, 2, 2, 0, 0, 0)	68	1211212123232102100203200001
522	8	20	80000	4	192135,20,	7, 4, 2, 2, 0, 0, 0)	68	112211223232101200203200002
523	8	20	80000	4	192135,19,	9, 3, 2, 2, 0, 0, 0)	70	1211212123232101200303200002
524	8	20	80000	4	192134,18,	8, 4, 2, 2, 0, 0, 0)	68	112211223232102100303200001
525	8	20	80000	12	576136,21,	7, 6, 0, 1, 1, 0, 0)	70	12112121232321222321003000000
526	8	20	80000	12	288136,21,	7, 6, 0, 1, 1, 0, 0)	70	112211223232123221003000000
527	8	20	80000	12	576135,19,	9, 4, 1, 1, 1, 0, 0)	70	2111233122223111322003000000
528	8	20	80000	12	576134,17,10,	4, 1, 1, 1, 1, 0, 0)	70	1211213212232112321002000000
529	8	20	80000	12	1152135,19,	9, 4, 1, 1, 1, 0, 0)	70	1211213212232112321003000000
530	8	20	80000	12	576134,17,10,	4, 1, 1, 1, 1, 0, 0)	70	1211212123321212321002000000
531	8	20	80000	12	1152135,19,	9, 4, 1, 1, 1, 0, 0)	70	1211212123321212321003000000
532	8	20	80000	12	576134,17,10,	4, 1, 1, 1, 1, 0, 0)	70	1122112312322113221002000000
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536	8	20	80000	12	576135,19,	9, 4, 1, 1, 1, 0, 0)	70	112211223232123221003000000
537	8	20	80000	12	288136,21,	7, 6, 0, 1, 1, 0, 0)	70	211122213223121322003000000
538	8	20	80000	12	576135,19,	8, 6, 0, 1, 1, 0, 0)	70	12112121232321222321002000000
539	8	20	80000	12	1152136,21,	7, 6, 0, 1, 1, 0, 0)	70	12112121232321222321003000000
540	8	20	80000	12	288135,19,	8, 6, 0, 1, 1, 0, 0)	70	1122112132231223221002000000
541	8	20	80000	12	576136,21,	7, 6, 0, 1, 1, 0, 0)	70	1122112132231223221003000000
542	8	20	80000	12	576132,14,10,	4, 3, 0, 1, 0, 0)	68	2111323122221111320002000001
543	8	20	80000	12	1152134,17,10,	3, 3, 0, 1, 0, 0)	70	2111323122221111320003000002
544	8	20	80000	12	576135,19,	8, 5, 2, 0, 1, 0, 0)	70	2112232212312111320002000003
545	8	20	80000	12	576133,16,	8, 6, 2, 0, 1, 0, 0)	70	2112232212312111320002000001
546	8	20	80000	12	1152135,19,	8, 5, 2, 0, 1, 0, 0)	70	2112232212312111320003000002
547	8	20	80000	12	576133,16,	8, 6, 2, 0, 1, 0, 0)	70	2112232212312111320002000001
548	8	20	80000	12	1152135,19,	8, 5, 2, 0, 1, 0, 0)	70	2112232212312111320003000002
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550	8	20	80000	12	288134,18,	8, 4, 3, 0, 1, 0, 0)	68	1122132121221111220003000002
551	8	20	80000	2	96136,22,	6, 4, 2, 2, 0, 0, 0)	68	112211213212230120032020000
552	8	20	80000	2	96136,22,	6, 4, 2, 2, 0, 0, 0)	68	112211223212320100322030000
553	8	20	80000	2	96136,22,	6, 4, 2, 2, 0, 0, 0)	68	112211223212320100322030000
554	8	20	80000	2	48134,18,	8, 4, 2, 2, 0, 0, 0)	68	11221121322123201200322010000
555	8	20	80000	2	96136,21,	8, 3, 2, 2, 0, 0, 0)	70	1122112132213201200322020000
556	8	20	80000	2	48134,20,	4, 6, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
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558	8	20	80000	2	96136,23,	4, 5, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
559	8	20	80000	2	96136,23,	4, 5, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
560	8	20	80000	2	48134,18,	8, 4, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
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564	8	20	80000	2	96134,18,	8, 4, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
565	8	20	80000	2	96135,19,	9, 3, 2, 2, 0, 0, 0)	70	1122112132213202100221020000
566	8	20	80000	2	96134,18,	8, 4, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
567	8	20	80000	2	96135,19,	9, 3, 2, 2, 0, 0, 0)	70	1122112132213202100221020000
568	8	20	80000	2	96134,19,	6, 5, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
569	8	20	80000	2	96134,18,	8, 4, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
570	8	20	80000	2	96135,20,	7, 4, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
571	8	20	80000	2	96135,19,	9, 3, 2, 2, 0, 0, 0)	70	1122112132213202100221020000
572	8	20	80000	2	48134,20,	4, 6, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
573	8	20	80000	2	96134,19,	6, 5, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
574	8	20	80000	2	48134,18,	8, 4, 2, 2, 0, 0, 0)	68	1122112132213202100221020000
575	8	20	80000	2	384133,16,	9, 4, 2, 2, 0, 0, 0)	68	2112231321132002210012002100
576	8	20	80000	8	384133,15,11,	3, 2, 2, 0, 0, 0)	70	211132223113200221

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
578	8	20	80000	8	384(34,17,9,5,1,2,0,0,0,0)	70	1212321231123003210022002100	
579	8	20	80000	8	384(35,19,8,5,1,2,0,0,0,0)	70	2112231321223002210022002100	
580	8	20	80000	8	384(33,15,11,3,2,2,0,0,0,0)	70	2112231321312002210011003200	
581	8	20	80000	8	384(33,16,9,4,2,2,0,0,0,0)	68	2112231321312002210012002100	
582	8	20	80000	8	384(33,15,11,3,2,2,0,0,0,0)	70	2111322231312002210013002100	
583	8	20	80000	8	384(34,17,9,5,1,2,0,0,0,0)	70	1212321231232003210012002100	
584	8	20	80000	1	48(36,23,3,7,1,2,0,0,0,0)	70	1122111223322101200202030003	
585	8	20	80000	1	48(36,21,7,5,1,2,0,0,0,0)	70	1122112132122302300202030002	
586	8	20	80000	1	48(35,20,6,6,1,2,0,0,0,0)	70	1122112132213202300202030003	
587	8	20	80000	1	48(36,21,7,5,1,2,0,0,0,0)	70	1122112132213202300202030002	
588	8	20	80000	1	48(36,22,5,6,1,2,0,0,0,0)	70	1122112132213202300202030002	
589	8	20	80000	1	48(36,21,7,5,1,2,0,0,0,0)	70	1122112132213202300202030003	
590	8	20	80000	1	48(34,20,3,8,1,2,0,0,0,0)	70	1122112132213202300202030002	
591	8	20	80000	1	96(36,22,5,6,1,2,0,0,0,0)	70	1122112132213202300202030002	
592	8	20	80000	1	48(35,20,6,6,1,2,0,0,0,0)	70	1122112132213202300202030003	
593	8	20	80000	1	48(36,21,7,5,1,2,0,0,0,0)	70	1122112132213202300202030002	
594	8	20	80000	1	48(35,20,7,3,4,1,0,0,0,0)	68	1122132312122001203023020100	
595	8	20	80000	1	48(36,21,8,2,4,1,0,0,0,0)	70	1122132312122002102030202000	
596	8	20	80000	1	48(35,20,7,3,4,1,0,0,0,0)	68	1122132312122002102033020100	
597	8	20	80000	1	48(35,19,9,2,4,1,0,0,0,0)	70	1122132312213001203037010200	
598	8	20	80000	1	48(35,20,7,3,4,1,0,0,0,0)	68	1122132312213002102022030000	
599	8	20	80000	1	48(35,21,5,4,4,1,0,0,0,0)	68	1122132312213002102022030000	
600	8	20	80000	1	48(36,21,8,2,4,1,0,0,0,0)	70	1122132312213002102022030000	
601	8	20	80000	1	48(35,20,7,3,4,1,0,0,0,0)	68	1122132312213002102022030000	
602	8	20	80000	1	48(38,25,5,4,3,1,0,0,0,0)	70	1121221202322202130302030300	
603	8	20	80000	1	48(36,22,6,3,4,1,0,0,0,0)	68	1121221202231102130302030300	
604	8	20	80000	1	48(37,24,4,5,3,1,0,0,0,0)	70	11213120332210120202030000	
605	8	20	80000	1	48(35,20,6,5,3,1,0,0,0,0)	70	1121312033221021303010202000	
606	8	20	80000	4	48(38,26,4,2,6,0,0,0,0,0)	68	1101221222233102330102330000	
607	8	20	80000	1	48(37,23,6,4,3,1,0,0,0,0)	70	1121223222231001202020300023	
608	8	20	80000	1	48(35,20,7,3,4,1,0,0,0,0)	68	1121222311231001202002030023	
609	8	20	80000	1	48(36,22,5,5,3,1,0,0,0,0)	70	1122133221122002302001020023	
610	8	20	80000	1	48(35,20,6,5,3,1,0,0,0,0)	70	1122133221231001203001020032	
611	8	20	80000	4	192(36,22,6,4,2,2,0,0,0,0)	68	1211212123123201200323000002	
612	8	20	80000	4	96(34,18,8,4,2,2,0,0,0,0)	68	1122112132213201200333000001	
613	8	20	80000	4	192(36,21,8,3,2,2,0,0,0,0)	70	1122112132213201200333000002	
614	8	20	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1211212123123202300202000032	
615	8	20	80000	2	96(35,20,7,3,4,1,0,0,0,0)	68	1122131220120323210200000310	
616	8	20	80000	2	96(36,21,8,2,4,1,0,0,0,0)	70	1122131220120323210030000220	
617	8	20	80000	2	96(35,20,7,3,4,1,0,0,0,0)	68	11221312201203232120020000310	
618	8	20	80000	2	96(36,21,8,2,4,1,0,0,0,0)	70	12112312301202232110030000270	
619	8	20	80000	2	48(34,19,7,2,5,1,0,0,0,0)	66	12121212301203232110010000220	
620	8	20	80000	2	96(34,18,9,1,5,1,0,0,0,0)	68	12121212301203232110020000310	
621	8	20	80000	2	48(35,19,10,0,5,1,0,0,0,0)	70	12121212301203232110030000220	
622	8	20	80000	2	96(36,21,8,2,4,1,0,0,0,0)	70	1212121230120323220020000310	
623	8	20	80000	2	48(37,24,5,3,4,1,0,0,0,0)	68	11212212701202232220030000270	
624	8	20	80000	2	48(35,21,6,2,5,1,0,0,0,0)	66	11212212701202232110030000270	
625	8	20	80000	1	48(37,25,4,1,7,0,0,0,0,0)	66	1121221220102223301033200200	
626	8	20	80000	2	96(36,21,7,4,3,1,0,0,0,0)	70	1212321231212002300021003203	
627	8	20	80000	4	384(34,19,6,4,4,1,0,0,0,0)	68	12312110322121020300301200201	
628	8	20	80000	4	384(35,20,6,5,3,1,0,0,0,0)	70	1122311023322102300301200201	
629	8	20	80000	4	192(34,17,10,2,4,1,0,0,0,0)	70	1231212023212101200302300201	
630	8	20	80000	4	192(34,17,9,4,3,1,0,0,0,0)	70	2132211023312102700301300701	
631	8	20	80000	4	192(35,19,8,4,3,1,0,0,0,0)	70	2221311032722102200301300701	
632	8	20	80000	8	192(33,16,9,3,4,1,0,0,0,0)	68	2112231321132001003272000011	
633	8	20	80000	8	384(36,21,7,4,3,1,0,0,0,0)	70	2112231321132001003272000022	
634	8	20	80000	2	48(36,22,6,2,6,0,0,0,0,0)	68	1121221220200332301027030120	
635	8	20	80000	24	1728(36,21,7,6,0,1,1,0,0,0)	70	11221112233221732210000000300	
636	8	20	80000	24	1152(35,19,8,6,0,1,1,0,0,0)	70	11221112233221232210000000200	
637	8	20	80000	24	3456(36,21,7,6,0,1,1,0,0,0)	70	11221112132231223221000000300	
638	8	20	80000	24	2304(35,19,8,6,0,1,1,0,0,0)	70	11221112132231223221000000200	
639	8	20	80000	24	1728(36,21,7,6,0,1,1,0,0,0)	70	11221112233221232210000000300	
640	8	20	80000	24	1152(35,19,8,6,0,1,1,0,0,0)	70	11221113221122323221000000200	
641	8	20	80000	24	2304(35,19,9,4,1,1,1,0,0,0)	70	11221112233231213221000000300	
642	8	20	80000	24	1152(34,17,10,4,1,1,1,0,0,0)	70	11221112233231213221000000200	
643	8	20	80000	24	2304(35,19,9,4,1,1,1,0,0,0)	70	11221123123221132210000000300	
644	8	20	80000	24	1152(34,17,10,4,1,1,1,0,0,0)	70	11221123123221132210000000200	
645	8	20	80000	24	2304(35,19,9,4,1,1,1,0,0,0)	70	11221123121223132210000000300	
646	8	20	80000	24	1152(34,17,10,4,1,1,1,0,0,0)	70	11221123121223132210000000200	
647	8	20	80000	24	2304(35,19,9,4,1,1,1,0,0,0)	70	11221132212312132210000000300	
648	8	20	80000	24	1152(34,17,10,4,1,1,1,0,0,0)	70	11221132212312132210000000200	
649	8	20	80000	48	1152(33,15,10,6,0,1,1,0,0,0)	70	1122111223322123221000000001	
650	8	20	80000	48	4608(35,19,8,6,0,1,1,0,0,0)	70	1122111223322123221000000002	
651	8	20	80000	48	4608(36,21,7,6,0,1,1,0,0,0)	70	1122111223322123221000000003	
652	8	20	80000	48	1152(33,15,10,6,0,1,1,0,0,0)	70	1122112132231223221000000001	
653	8	20	80000	48	4608(35,19,8,6,0,1,1,0,0,0)	70	1122112132231223221000000002	
654	8	20	80000	48	4608(36,21,7,6,0,1,1,0,0,0)	70	1122112132231223221000000003	
655	8	20	80000	48	2304(32,13,12,4,1,1,1,0,0,0)	70	112211122332312132210000000001	
656	8	20	80000	48	9216(34,17,10,4,1,1,1,0,0,0)	70	112211122332312132210000000002	
657	8	20	80000	48	9216(35,19,9,4,1,1,1,0,0,0)	70	112211122332312132210000000003	
658	8	20	80000	48	2304(32,13,12,4,1,1,1,0,0,0)	70	11221123123221132210000000001	
659	8	20	80000	48	9216(34,17,10,4,1,1,1,0,0,0)	70	11221123123221132210000000002	
660	8	20	80000	48	9216(35,19,9,4,1,1,1,0,0,0)	70	11221123123221132210000000003	
661	8	20	80000	8	192(34,20,4,6,2,2,0,0,0,0)	68	1211212123212302100220021000	
662	8	20	80000	8	384(36,23,4,5,2,2,0,0,0,0)	68	1211212123212302100220021000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
681	8	19	80000	16	384(32,14,10,	4, 2, 2, 0, 0, 0)	68	1122113221322101200002100001
682	8	19	80000	16	768(35,19,8,	5, 1, 2, 0, 0, 0)	70	1211217321232102300002100002
683	8	19	80000	16	768(35,19,8,	5, 1, 2, 0, 0, 0)	70	1122113221322102300002100002
684	8	19	80000	16	768(34,18,7,	6, 1, 2, 0, 0, 0)	70	1122113221322103200002100001
685	8	19	80000	144	6912(32,14,10,	4, 2, 2, 0, 0, 0)	68	1232121211320001200027100011
686	8	19	80000	144	13824(33,15,10,	5, 1, 2, 0, 0, 0)	70	1321222311320001200022100011
687	8	19	80000	144	6912(32,14,10,	4, 2, 2, 0, 0, 0)	68	1321222111320001200022100011
688	8	19	80000	144	13824(33,15,10,	5, 1, 2, 0, 0, 0)	70	1232123211320001200027100011
689	8	19	80000	12	576(34,17,9,	5, 2, 0, 1, 0, 0)	70	1122132112322112300002010000
690	8	19	80000	12	576(34,17,9,	5, 2, 0, 1, 0, 0)	70	1122132112322112300002010000
691	8	19	80000	12	576(34,17,9,	5, 2, 0, 1, 0, 0)	70	1122132112322112300002010000
692	8	19	80000	2	96(36,21,7,	5, 1, 2, 0, 0, 0)	70	1122132112322112300002010000
693	8	19	80000	2	96(36,21,7,	5, 1, 2, 0, 0, 0)	70	1122132112322112300002010000
694	8	19	80000	2	96(36,21,7,	5, 1, 2, 0, 0, 0)	70	1122132112322112300002010000
695	8	19	80000	2	96(36,21,7,	5, 1, 2, 0, 0, 0)	70	1122132112322112300002010000
696	8	19	80000	2	48(35,19,8,	4, 3, 1, 0, 0, 0)	70	1122132112322112300002010000
697	8	19	80000	2	96(35,19,8,	4, 3, 1, 0, 0, 0)	70	1122132112322112300002010000
698	8	19	80000	2	48(36,21,7,	4, 3, 1, 0, 0, 0)	70	1122132112322112300002010000
699	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111323122132002210012001000
700	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111323122132002210012001000
701	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111323122132002210012001000
702	8	19	80000	4	192(32,14,10,	4, 2, 2, 0, 0, 0)	68	2111322211132002210012001000
703	8	19	80000	4	384(34,17,10,	3, 2, 2, 0, 0, 0)	70	2111322211132002210012001000
704	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111322211132002210012001000
705	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111322211132002210012001000
706	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111322211132002210012001000
707	8	19	80000	4	192(34,17,9,	5, 1, 2, 0, 0, 0)	70	2111322211132002210012001000
708	8	19	80000	4	192(32,14,10,	4, 2, 2, 0, 0, 0)	68	2111322211132002210012001000
709	8	19	80000	4	384(34,17,10,	3, 2, 2, 0, 0, 0)	70	2111322211132002210012001000
710	8	19	80000	4	192(32,14,10,	4, 2, 2, 0, 0, 0)	68	2111322211132002210012001000
711	8	19	80000	4	192(33,15,10,	5, 1, 2, 0, 0, 0)	70	2111322211132002210012001000
712	8	19	80000	4	192(34,17,10,	3, 2, 2, 0, 0, 0)	70	2111322211132002210012001000
713	8	19	80000	4	192(34,17,10,	3, 2, 2, 0, 0, 0)	70	2111322211132002210012001000
714	8	19	80000	4	192(35,19,9,	2, 4, 1, 0, 0, 0)	70	21113222111320022100

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CDOE	TERM	GRAPH MATRIX
784	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1211212123123203200100032000	
785	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1122112132122303200100032000	
786	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1122112132122303200100032000	
787	8	19	80000	4	192(35,19,8,5,1,2,0,0,0)	70	1122111232313203200200021000	
788	8	19	80000	4	192(35,19,8,5,1,2,0,0,0)	70	1211211232212303200200021000	
789	8	19	80000	4	192(36,22,5,6,1,2,0,0,0)	70	121121213321202100200032000	
790	8	19	80000	4	192(36,22,5,6,1,2,0,0,0)	70	11221121322102100200032000	
791	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	121121213321202100200032000	
792	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	11221121322103200100032000	
793	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	11221121322103200100032000	
794	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	1122111223231202100300032000	
795	8	19	80000	4	192(36,22,5,6,1,2,0,0,0)	70	1211211232232102100300032000	
796	8	19	80000	4	192(36,22,5,6,1,2,0,0,0)	70	1211212123232102100300032000	
797	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	1122112132231202100200032000	
798	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	1211212123232103200100032000	
799	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	1122112132231203200100032000	
800	8	19	80000	4	192(36,21,7,5,1,2,0,0,0)	70	1122111223322102100300032000	
801	8	19	80000	4	768(36,21,8,3,2,2,0,0,0)	70	1211211232321202100300032000	
802	8	19	80000	4	768(37,23,7,3,2,2,0,0,0)	70	1121222131210322130020030000	
803	8	19	80000	4	192(34,17,10,3,2,2,0,0,0)	70	1121222131210322130020030000	
804	8	19	80000	4	768(36,21,8,3,2,2,0,0,0)	70	1212121231120322120030030000	
805	8	19	80000	4	768(37,23,7,3,2,2,0,0,0)	70	1212121231120322120030030000	
806	8	19	80000	4	192(34,17,10,3,2,2,0,0,0)	70	1212121231120322120030030000	
807	8	19	80000	4	768(36,22,6,4,2,2,0,0,0)	68	1211232121210322120020030000	
808	8	19	80000	4	768(37,24,5,4,2,2,0,0,0)	68	1211232121210322120020030000	
809	8	19	80000	4	192(34,18,8,4,2,2,0,0,0)	68	1211232121210322120020030000	
810	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1121222131231002103200020030	
811	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1121222131231002103200010020	
812	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1121222131231002103200020010	
813	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1121222131231002103200020020	
814	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1121222131231003202100020030	
815	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1121222131231003202100010020	
816	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1121222131231003202100020010	
817	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1121222131231003202100030020	
818	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1211232121321002103200020030	
819	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1211232121321002103200010020	
820	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1211232121321002103200020010	
821	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1211232121321002103200030020	
822	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1211232121321003202100020030	
823	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1211232121321003202100010020	
824	8	19	80000	4	192(34,18,7,6,1,2,0,0,0)	70	1211232121321003202100020010	
825	8	19	80000	4	384(36,21,7,5,1,2,0,0,0)	70	1211232121321003202100030020	
826	8	19	80000	2	96(35,19,8,4,3,1,0,0,0)	70	1121222311322002103000010230	
827	8	19	80000	2	96(35,20,6,5,3,1,0,0,0)	70	1212123211232002102000010230	
828	8	19	80000	2	96(36,21,7,4,3,1,0,0,0)	70	1212123211232002102000020320	
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830	8	19	80000	2	192(36,21,7,4,3,1,0,0,0)	70	1121222311231002103000020330	
831	8	19	80000	2	96(34,19,5,6,3,1,0,0,0)	70	1121222311231002103000010220	
832	8	19	80000	2	96(35,20,6,5,3,1,0,0,0)	70	1121222311231003202000010220	
833	8	19	80000	2	192(36,22,5,5,3,1,0,0,0)	70	1212123211321002102000020330	
834	8	19	80000	2	96(34,20,3,7,3,1,0,0,0)	70	1212123211321002102000010220	
835	8	19	80000	2	192(36,21,7,4,3,1,0,0,0)	70	1212123211321003201000020330	
836	8	19	80000	2	96(34,19,5,6,3,1,0,0,0)	70	1212123211321003201000010220	
837	8	19	80000	8	192(34,18,8,4,2,2,0,0,0)	68	1122112132213202100220000001	
838	8	19	80000	8	768(36,22,6,4,2,2,0,0,0)	68	1122112132213202100220000002	
839	8	19	80000	8	768(37,24,5,4,2,2,0,0,0)	68	1122112132213202100220000003	
840	8	19	80000	8	384(34,17,10,3,2,2,0,0,0)	70	1122111223213202100320000001	
841	8	19	80000	8	1536(36,21,8,3,2,2,0,0,0)	70	1122111223213202100320000002	
842	8	19	80000	8	1536(37,23,7,3,2,2,0,0,0)	70	1122111223213202100320000003	
843	8	19	80000	2	48(36,24,2,4,6,0,0,0,0)	68	1121221220210331022200100020	
844	8	19	80000	2	96(38,27,2,3,6,0,0,0,0)	68	1121221220210331022200200030	
845	8	19	80000	2	48(36,24,2,4,6,0,0,0,0)	68	1121221220210331022200200010	
846	8	19	80000	2	96(38,27,2,3,6,0,0,0,0)	68	1121221220210331022200300020	
847	8	19	80000	2	48(36,22,6,2,6,0,0,0,0)	68	1121221220210332013300100020	
848	8	19	80000	2	96(38,25,6,1,6,0,0,0,0)	70	1121221220210332013300200030	
849	8	19	80000	2	48(36,22,6,2,6,0,0,0,0)	68	1121221220210332013300200010	
850	8	19	80000	2	96(38,25,6,1,6,0,0,0,0)	70	1121221220210332013300300020	
851	8	19	80000	4	48(36,24,2,4,6,0,0,0,0)	68	11212221302103210220000100220	
852	8	19	80000	4	192(36,23,4,3,6,0,0,0,0)	68	1121222130210321022000200310	
853	8	19	80000	4	96(37,24,5,2,6,0,0,0,0)	68	1121222130210323022000100220	
854	8	19	80000	4	96(36,22,6,2,6,0,0,0,0)	68	1121222130210323022000200310	
855	8	19	80000	4	96(36,22,6,2,6,0,0,0,0)	68	1121222130210323022000200310	
856	8	19	80000	4	192(37,23,7,1,6,0,0,0,0)	70	1121222130210323022000200310	
857	8	19	80000	2	96(35,19,8,4,3,1,0,0,0)	70	1211233212212002301003200010	
858	8	19	80000	2	96(35,19,8,4,3,1,0,0,0)	70	1211233212212002301003200010	
859	8	19	80000	2	96(34,17,10,2,4,1,0,0,0)	70	1121222311213002301003200010	
860	8	19	80000	2	96(35,19,9,2,4,1,0,0,0)	70	1212123211212002302003200010	
861	8	19	80000	2	96(35,19,9,2,4,1,0,0,0)	70	1121222311122002301003200020	
862	8	19	80000	2	96(34,18,8,3,4,1,0,0,0)	68	1212123211212003301003200010	
863	8	19	80000	2	96(36,21,7,4,3,1,0,0,0)	70	1212122322212003301003200010	
864	8	19	80000	4	192(35,19,8,4,3,1,0,0,0)	70	11232223112130021002320001	
865	8	19	80000	4	192(35,19,8,4,3,1,0,0,0)	70	1123222311122002100033200001	
866	8	19	80000	4	192(36,21,7,4,3,1,0,0,0)	70	1123222311122002100023200002	
867	8	19	80000	4	192(35,20,6,5,3,1,0,0,0)	70	1212323211212002100023200001	
868	8	19	80000	12	576(34,17,10,3,3,0,1,0,0)	70	2111323122221112210002000000	
869	8	19	80000	12	1152(35,19,9,3,3,0,1,0,0)	70	2111323122221112210003000000	
870	8	19	80000	12	1152(35,19,8,5,2,0,1,0,0)	70	2112232212312112210002000000	
871	8	19	80000	12	1728(36,21,7,5,2,0,1,0,0)	70	2112232212312112210003000000	
872	8	19	80000	12	576(35,19,8,5,2,0,1,0,0)	70	2112232212132112210002000000	
873	8	19	80000	12	1152(36,21,7,5,2,0,1,0,0)	70	2112232212132112210003000000	

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
887	8	19	80000	1	96(36,21,	7, 5, 1, 2, 0, 0, 0, 01	70	1122112132213203200103020000
888	8	19	80000	1	48(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132231201200303020000
889	8	19	80000	1	48(36,22,	5, 6, 1, 2, 0, 0, 0, 01	70	1122112132231202100202030000
890	8	19	80000	1	48(36,22,	5, 6, 1, 2, 0, 0, 0, 0)	70	1122112132231202100203020000
891	8	19	80000	1	48(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132231203200102030000
892	8	19	80000	1	48(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132231203200102030000
893	8	19	80000	1	48(34,18,	7, 6, 1, 2, 0, 0, 0, 0)	70	1122112132322101200302010000
894	8	19	80000	1	96(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132322101200303020000
895	8	19	80000	1	48(35,19,	8, 5, 1, 2, 0, 0, 0, 0)	70	1122112132322102300202010000
896	8	19	80000	1	48(34,19,	5, 7, 1, 2, 0, 0, 0, 0)	70	1122112132322102100201020000
897	8	19	80000	1	48(34,19,	5, 7, 1, 2, 0, 0, 0, 0)	70	1122112132322102100202010000
898	8	19	80000	1	96(36,22,	5, 6, 1, 2, 0, 0, 0, 0)	70	1122112132322102100202030000
899	8	19	80000	1	96(36,22,	5, 6, 1, 2, 0, 0, 0, 0)	70	1122112132322102100203020000
900	8	19	80000	1	48(34,18,	7, 6, 1, 2, 0, 0, 0, 0)	70	1122112132322103200101020000
901	8	19	80000	1	48(34,18,	7, 6, 1, 2, 0, 0, 0, 0)	70	1122112132322103200102010000
902	8	19	80000	1	96(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132322103200102030000
903	8	19	80000	1	96(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132322103200103020000
904	8	19	80000	1	48(36,21,	8, 2, 4, 1, 0, 0, 0, 01	70	11222231121300120203302000
905	8	19	80000	1	48(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	11222231121300210302203000
906	8	19	80000	1	48(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	112222311213002210302203000
907	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122133221122002102032030000
908	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122133221122002102032030000
909	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122133221122002102033020000
910	8	19	80000	1	48(35,20,	6, 5, 3, 1, 0, 0, 0, 0)	70	1122133221213002102021020000
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912	8	19	80000	1	96(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122133221213002102022030000
913	8	19	80000	1	96(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122133221213002102022030000
914	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 01	70	1122132312213002102022030000
915	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 01	70	1122132312213002102022030000
916	8	19	80000	1	48(36,21,	7, 4, 3, 1, 0, 0, 0, 0)	70	112223222122002301002030010
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918	8	19	80000	1	48(34,18,	8, 3, 4, 1, 0, 0, 0, 01	68	112222311122002301002030010
919	8	19	80000	1	48(35,19,	9, 2, 4, 1, 0, 0, 0, 0)	70	1121222311122002301003020020
920	8	19	80000	1	48(35,19,	9, 2, 4, 1, 0, 0, 0, 0)	70	1121222311122003202002030010
921	8	19	80000	1	48(34,18,	8, 3, 4, 1, 0, 0, 0, 0)	68	1121222311231001202003020010
922	8	19	80000	1	48(34,17,10,	2, 4, 1, 0, 0, 0, 0)	70	1121222311231002301003020010
923	8	19	80000	1	48(34,17,10,	2, 4, 1, 0, 0, 0, 0)	70	1121222311231002103003020010
924	8	19	80000	1	48(35,20,	6, 5, 3, 1, 0, 0, 0, 01	70	1122133221122003201001020020
925	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1122133221122003201002010030
926	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 01	70	1122133221122003201002030010
927	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1122133221231001203002010020
928	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1122133221231002102001020030
929	8	19	80000	1	48(35,20,	6, 5, 3, 1, 0, 0, 0, 0)	70	1122133221231002102002010020
930	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1122133221231002102003020010
931	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1122133221231003201002010020
932	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1122132312122003201002030010
933	8	19	80000	1	48(35,19,	8, 4, 3, 1, 0, 0, 0, 01	70	1122132312231002102003020010
934	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1121222311120203200002030030
935	8	19	80000	24	1152(32,14,	9, 6, 2, 0, 1, 0, 0, 0)	70	123321121221211120000200001
936	8	19	80000	24	2304(34,17,	9, 5, 2, 0, 1, 0, 0, 0)	70	123321121221211120000300002
937	8	19	80000	2	96(36,22,	5, 6, 1, 2, 0, 0, 0, 0)	70	1211211232232101200203000002
938	8	19	80000	2	96(36,22,	5, 6, 1, 2, 0, 0, 0, 0)	70	1122111223322101200203000002
939	8	19	80000	2	96(34,18,	7, 6, 1, 2, 0, 0, 0, 0)	70	1211212123232101200302000001
940	8	19	80000	2	192(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1211212123232101200303000002
941	8	19	80000	2	96(34,18,	7, 6, 1, 2, 0, 0, 0, 01	70	1122112132322101200302000001
942	8	19	80000	2	192(36,21,	7, 5, 1, 2, 0, 0, 0, 0)	70	1122112132322101200303000002
943	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1211231230321201202203000002
944	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1211231230321201202203000002
945	8	19	80000	1	48(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	1212121230321101203202000300
946	8	19	80000	1	48(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	1212121230321101203203000002
947	8	19	80000	1	48(34,18,	8, 3, 4, 1, 0, 0, 0, 0)	68	1212121230321102102301000200
948	8	19	80000	1	96(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	1212121230321102102302000300
949	8	19	80000	1	48(34,18,	8, 3, 4, 1, 0, 0, 0, 0)	68	1212121230321102102302000100
950	8	19	80000	1	96(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	1212121230321102102303000200
951	8	19	80000	1	48(36,21,	7, 4, 3, 1, 0, 0, 0, 0)	70	1212121230232202102302000100
952	8	19	80000	1	48(36,21,	8, 2, 4, 1, 0, 0, 0, 0)	70	1121221220231102103303000200
953	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122131220322102102302000300
954	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122131220322102102303000200
955	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122131220231202102302000300
956	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1122131220231202102303000200
957	8	19	80000	2	48(38,25,	6, 1, 6, 0, 0, 0, 0, 01	70	1121221022231032301303200000
958	8	19	80000	1	48(36,21,	7, 4, 3, 1, 0, 0, 0, 0)	70	1211231230212102300102003300
959	8	19	80000	1	48(35,20,	6, 5, 3, 1, 0, 0, 0, 0)	70	1211231230212102302020100200
960	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1121221220213103200202003300
961	8	19	80000	1	48(37,23,	6, 4, 3, 1, 0, 0, 0, 0)	70	1121221220231103200202003300
962	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1212123211232001203001000032
963	8	19	80000	2	96(34,18,	8, 3, 4, 1, 0, 0, 0, 0)	68	1211231230212012301002091002
964	8	19	80000	2	96(34,17,10,	2, 4, 1, 0, 0, 0, 0)	70	1211231230212012301003002001
965	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1211231230232012301002001002
966	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1211231230321022301002091002
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968	8	19	80000	2	96(34,17,10,	2, 4, 1, 0, 0, 0, 0)	70	1211232120321012301001002003
969	8	19	80000	2	96(34,18,	8, 3, 4, 1, 0, 0, 0, 0)	68	1211232120321012301002001002
970	8	19	80000	2	96(34,17,10,	2, 4, 1, 0, 0, 0, 0)	70	1211232120321012301003002001
971	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1211232320321011202002001003
972	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1211232320321011202002003001
973	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1211232320321012301002001002
974	8	19	80000	2	96(34,18,	8, 3, 4, 1, 0, 0, 0, 0)	68	1121222130122012301003002001
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976	8	19	80000	2	96(36,21,	7, 4, 3, 1, 0, 0, 0, 0)	70	112122322012202230100302001
977	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1121222130231022301003002001
978	8	19	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0, 0)	70	1121222130322012301003002001
979	8	19	80000	2	96(35,20,	6, 5, 3, 1, 0, 0, 0, 0)	70	1121223220231011202002003001
980	8	19	80000	2	96(36,21,	7, 4, 3, 1, 0, 0, 0, 0)	70	1121223220231011202003002002
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982	8	19	80000	2	96(37,23,	6, 4, 3, 5, 0, 0, 0, 0)	70	1121022313122202303003200001
983	8	19	80000	2	48(34,18,	8, 2, 6, 0, 0, 0, 0, 0)	68	1121022313231012020021000001
984	8	19	80000	2	96(37,23,	6, 4, 3, 5, 0, 0, 0, 0)	70	1121022313231012020032000002
985	8	19	80000	2	192(37,23,	6, 4, 3, 5, 0, 0, 0, 0)	70	1121022313230301202013220000
986	8	19	80000	1	48(38,25,	5, 3, 5, 0, 0, 0, 0, 0)	70	1121221220230102003323020200
987	8	19	80000	2	48(34,18,	8, 2, 6, 0, 0, 0, 0, 0)	68	112120102221332310302001100
988	8	19	8000					

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
990	8	19	80000	12	1152(35,19,9,3,3,0,1,0,0,0)	70	2111323122221112210000003000	
991	8	19	80000	12	576(34,17,10,3,3,0,1,0,0,0)	70	2111323122221112210000002000	
992	8	19	80000	12	576(36,21,7,5,2,0,1,0,0,0)	70	2113122231221122100000000000	
993	8	19	80000	12	288(35,19,9,3,3,0,1,0,0,0)	70	2112211371312127710000003000	
994	8	19	80000	12	576(35,19,8,5,2,0,1,0,0,0)	70	2112212232312112210000002000	
995	8	19	80000	12	1152(36,21,7,5,2,0,1,0,0,0)	70	2112212232312112210000003000	
996	8	19	80000	12	1152(35,19,8,5,2,0,1,0,0,0)	70	2112232212312112210000002000	
997	8	19	80000	12	1728(36,21,7,5,2,0,1,0,0,0)	70	2112232212312112210000003000	
998	8	19	80000	36	864(37,13,12,3,3,0,1,0,0,0)	70	2111323122221112210000000001	
999	8	19	80000	36	3456(34,17,10,3,3,0,1,0,0,0)	70	2111323122221112210000000002	
1000	8	19	80000	36	3456(35,19,9,3,3,0,1,0,0,0)	70	2111323122221112210000000003	
1001	8	19	80000	36	1728(33,15,10,5,2,0,1,0,0,0)	70	2112232212312112210000000001	
1002	8	19	80000	36	6912(35,19,8,5,2,0,1,0,0,0)	70	2112232212312112210000000002	
1003	8	19	80000	36	6912(36,21,7,5,2,0,1,0,0,0)	70	2112232212312112210000000003	
1004	8	19	80000	4	96(36,22,6,4,2,2,0,0,0,0)	68	1122112132213202100220030000	
1005	8	19	80000	4	192(37,24,5,4,2,2,0,0,0,0)	68	1122112132213202100220030000	
1006	8	19	80000	4	192(36,21,8,3,2,2,0,0,0,0)	70	1122111223213202100320020000	
1007	8	19	80000	4	384(37,23,7,3,2,2,0,0,0,0)	70	1122111223213202100320030000	
1008	8	19	80000	4	192(36,21,8,3,2,2,0,0,0,0)	70	1211211232212302100320020000	
1009	8	19	80000	4	384(37,23,7,3,2,2,0,0,0,0)	70	1211211232212302100320030000	
1010	8	19	80000	4	96(36,22,6,4,2,2,0,0,0,0)	68	1211212123212302100220020000	
1011	8	19	80000	4	192(37,24,5,4,2,2,0,0,0,0)	68	1211212123212302100220030000	
1012	8	19	80000	2	96(36,22,5,6,1,2,0,0,0,0)	70	1122112132231202100200020030	
1013	8	19	80000	2	96(36,22,5,6,1,2,0,0,0,0)	70	1122112132231202100200030020	
1014	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1122112132231202100200030030	
1015	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	112211213223120210030001000300	
1016	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1211211232321202100300020030	
1017	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1211211232321202100300030020	
1018	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1122111223231202100300020030	
1019	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1122111223231202100300030020	
1020	8	19	80000	2	96(36,22,5,6,1,2,0,0,0,0)	70	1211212123321202100200020030	
1021	8	19	80000	2	96(36,22,5,6,1,2,0,0,0,0)	70	1211212123321202100200030020	
1022	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1211212123321203200100020030	
1023	8	19	80000	2	96(36,21,7,5,1,2,0,0,0,0)	70	1211212123321203200100030020	
1024	8	19	80000	24	1152(32,14,10,4,2,2,0,0,0,0)	68	2112211321312002210010002100	
1025	8	19	80000	24	2304(34,17,10,3,2,2,0,0,0,0)	70	2112211321312002210010003200	
1026	8	19	80000	24	1152(32,14,10,4,2,2,0,0,0,0)	68	2111322211312002210010002100	
1027	8	19	80000	24	2304(34,17,10,3,2,2,0,0,0,0)	70	2111322211312002210010003200	
1028	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	12112121231232003210010002100	
1029	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	1211232121232003210010002100	
1030	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	1212123211123003210020002100	
1031	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	1213212121123003210020002100	
1032	8	19	80000	24	1152(34,17,9,5,1,2,0,0,0,0)	70	2112213121223002210020002100	
1033	8	19	80000	24	1152(34,17,9,5,1,2,0,0,0,0)	70	2113122211223002210020002100	
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1035	8	19	80000	24	2304(34,17,10,3,2,2,0,0,0,0)	70	2112213121312002210010003200	
1036	8	19	80000	24	1152(32,14,10,4,2,2,0,0,0,0)	68	2113122211312002210010002100	
1037	8	19	80000	24	2304(34,17,10,3,2,2,0,0,0,0)	70	2113122211312002210010003200	
1038	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	1212123211232003210010002100	
1039	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	1213212121232003210010002100	
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1041	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	2111322231312002210010002100	
1042	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	2112233121312002210010002100	
1043	8	19	80000	24	1152(33,15,10,5,1,2,0,0,0,0)	70	2113122231312002210010002100	
1044	8	19	80000	2	192(37,23,6,4,3,1,0,0,0,0)	70	1122132312213002102020020300	
1045	8	19	80000	2	192(37,23,6,4,3,1,0,0,0,0)	70	1122132312213002102020030200	
1046	8	19	80000	2	96(35,20,6,5,3,1,0,0,0,0)	70	1122132312213002102020010200	
1047	8	19	80000	2	96(35,20,6,5,3,1,0,0,0,0)	70	1122132312213002102020020100	
1048	8	19	80000	2	192(37,23,6,4,3,1,0,0,0,0)	70	1122132312212002102030020300	
1049	8	19	80000	2	192(37,23,6,4,3,1,0,0,0,0)	70	1122132312212002102030030200	
1050	8	19	80000	2	96(35,20,6,5,3,1,0,0,0,0)	70	1122132312212002102030010200	
1051	8	19	80000	2	96(35,20,6,5,3,1,0,0,0,0)	70	1122132312212002102030020100	
1052	8	19	80000	2	192(37,23,6,4,3,1,0,0,0,0)	70	1211233212212002103020020300	
1053	8	19	80000	2	192(37,23,6,4,3,1,0,0,0,0)	70	1211233212212002103020030200	
1054	8	19	80000	2	96(35,20,6,5,3,1,0,0,0,0)	70	1211233212212002103020010200	
1055	8	19	80000	2	96(35,20,6,5,3,1,0,0,0,0)	70	1211233212212002103020020100	
1056	8	19	80000	2	96(35,19,8,4,3,1,0,0,0,0)	70	1122133221213002102020010300	
1057	8	19	80000	2	192(36,21,7,4,3,1,0,0,0,0)	70	1122133221213002102020020200	
1058	8	19	80000	2	96(35,19,8,4,3,1,0,0,0,0)	70	1122133221213002102020030100	
1059	8	19	80000	2	96(35,19,8,4,3,1,0,0,0,0)	70	11221332212130021020200300100	
1060	8	19	80000	2	192(36,21,7,4,3,1,0,0,0,0)	70	1122133221213002102020020200	
1061	8	19	80000	2	96(35,19,8,4,3,1,0,0,0,0)	70	1122133221213002102020030100	
1062	8	19	80000	2	96(35,19,8,4,3,1,0,0,0,0)	70	1211232321212002103020010300	
1063	8	19	80000	2	192(36,21,7,4,3,1,0,0,0,0)	70	1211232321212002103020020200	
1064	8	19	80000	2	96(35,19,8,4,3,1,0,0,0,0)	70	1211232321212002103020030100	
1065	8	19	80000	2	192(36,21,8,2,4,1,0,0,0,0)	70	1121222311213002103020020300	
1066	8	19	80000	2	192(36,21,8,2,4,1,0,0,0,0)	70	1121222311213002103020030200	
1067	8	19	80000	2	96(34,18,8,3,4,1,0,0,0,0)	68	1121222311213002103020010200	
1068	8	19	80000	2	96(34,18,8,3,4,1,0,0,0,0)	68	1121222311213002103020020100	
1069	8	19	80000	2	192(36,21,8,2,4,1,0,0,0,0)	70	121123211123002102030020300	
1070	8	19	80000	2	192(36,21,8,2,4,1,0,0,0,0)	70	121123211123002102030030200	
1071	8	19	80000	2	96(34,18,8,3,4,1,0,0,0,0)	68	1212123211123002102030010200	
1072	8	19	80000	2	96(34,18,8,3,4,1,0,0,0,0)	68	1212123211123002102030020100	
1073	8	19	80000	2	192(36,21,8,2,4,1,0,0,0,0)	70	1121222311122002103030020300	
1074	8	19	80000	2	192(36,21,8			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1196	8	18	80000	2	192(37,23,	6, 5, 1, 2, 0, 0, 0)	70	1211212123232102100203000000
1197	8	18	80000	2	96(36,21,	7, 5, 1, 2, 0, 0, 0)	70	1122112132322102100202000000
1198	8	18	80000	2	192(37,23,	6, 5, 1, 2, 0, 0, 0)	70	1122112132322102100203000000
1199	8	18	80000	1	48(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1212123211123003201001000020
1200	8	18	80000	1	48(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1212123211123003201002000010
1201	8	18	80000	1	48(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1121222311122002301003000020
1202	8	18	80000	2	96(32,15,	7, 6, 3, 1, 0, 0, 0)	70	1123222111120002100011020020
1203	8	18	80000	2	192(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1123222111120002100012030030
1204	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1122312112120002100012030030
1205	8	18	80000	4	192(36,22,	5, 4, 5, 0, 0, 0, 0)	70	1122312310201222300001200001
1206	8	18	80000	4	96(34,18,	8, 2, 6, 0, 0, 0, 0)	68	1122312310201221200002100001
1207	8	18	80000	4	192(37,23,	6, 3, 5, 0, 0, 0, 0)	70	1122312310201223200001200002
1208	8	18	80000	4	192(37,23,	6, 3, 5, 0, 0, 0, 0)	70	1122312310201222300002100002
1209	8	18	80000	4	192(36,22,	5, 4, 5, 0, 0, 0, 0)	70	1122312310201223200002100001
1210	8	18	80000	1	48(35,19,	8, 3, 5, 0, 0, 0, 0)	70	1122311200102323200002100100
1211	8	18	80000	12	1152(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1321222111230001200012000201
1212	8	18	80000	12	1152(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1321222111120002300013000021
1213	8	18	80000	12	1152(34,18,	7, 5, 3, 1, 0, 0, 0)	70	123212121123000120001200021
1214	8	18	80000	12	1152(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1232121211120002300013000021
1215	8	18	80000	1	48(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121221220210332031003000200
1216	8	18	80000	8	768(34,17,	9, 4, 3, 1, 0, 0, 0)	70	2111321320221013002002001001
1217	8	18	80000	8	768(34,17,	9, 4, 3, 1, 0, 0, 0)	70	2111323120221012003001002001
1218	8	18	80000	8	384(32,13,12,	2, 4, 1, 0, 0, 0, 0)	70	2111323120221011002002001001
1219	8	18	80000	8	768(34,17,	9, 4, 3, 1, 0, 0, 0)	70	2111323120221013002002001001
1220	8	18	80000	4	96(32,14,10,	2, 6, 0, 0, 0, 0, 0)	68	1121202033102212110002101000
1221	8	18	80000	4	384(35,19,	8, 3, 5, 0, 0, 0, 0)	70	1121202033102213200021010000
1222	8	18	80000	1	48(35,19,	8, 3, 5, 0, 0, 0, 0)	70	1122132102230021020003010001
1223	8	18	80000	4	768(36,21,	7, 5, 1, 2, 0, 0, 0)	70	1212121231230212120000020000
1224	8	18	80000	4	768(37,23,	6, 5, 1, 2, 0, 0, 0)	70	1212121231230212120000030000
1225	8	18	80000	4	192(34,17,	9, 5, 1, 2, 0, 0, 0)	70	1212121231230212120000010000
1226	8	18	80000	4	768(36,21,	7, 5, 1, 2, 0, 0, 0)	70	1211232121320212120000020000
1227	8	18	80000	4	768(37,23,	6, 5, 1, 2, 0, 0, 0)	70	1211232121320212120000030000
1228	8	18	80000	4	192(34,17,	9, 5, 1, 2, 0, 0, 0)	70	1211232121320212120000010000
1229	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1212123211123003201000010200
1230	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1212123211123003201000020100
1231	8	18	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1121222311122003202000010200
1232	8	18	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1121222311122003202000020100
1233	8	18	80000	2	192(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1212123211212003201000020300
1234	8	18	80000	2	192(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1212123211212003201000030200
1235	8	18	80000	2	96(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1212123211212003201000010200
1236	8	18	80000	2	96(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1212123211212003201000020100
1237	8	18	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1212123211232002102000020100
1238	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1121222311231003103000020100
1239	8	18	80000	2	192(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1212123211321002102000030200
1240	8	18	80000	2	96(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1212123211321002102000020100
1241	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1212123211321003201000020100
1242	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1122311221213003200010012000
1243	8	18	80000	2	96(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1122311221213003200010021000
1244	8	18	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1122311221122003200020012000
1245	8	18	80000	2	96(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1122311221122003200020021000
1246	8	18	80000	2	192(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1213212121212003200010023000
1247	8	18	80000	2	192(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1213212121212003200010032000
1248	8	18	80000	2	96(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1213212121212003200010012000
1249	8	18	80000	2	96(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1213212121212003200010021000
1250	8	18	80000	4	192(37,24,	5, 3, 4, 1, 0, 0, 0)	68	1212123211212002102020000300
1251	8	18	80000	4	96(36,22,	6, 3, 4, 1, 0, 0, 0)	68	1212123211212002102020000200
1252	8	18	80000	4	384(39,27,	4, 4, 3, 1, 0, 0, 0)	70	1212122322212002102020000300
1253	8	18	80000	4	288(38,25,	5, 4, 3, 1, 0, 0, 0)	70	1212122322212002102020000200
1254	8	18	80000	2	48(36,22,	6, 2, 6, 0, 0, 0, 0)	68	1121221220120222013300100000
1255	8	18	80000	2	192(38,26,	4, 2, 6, 0, 0, 0, 0)	68	1121221220120222013300200000
1256	8	18	80000	2	192(39,28,	3, 2, 6, 0, 0, 0, 0)	68	1121221220120222013300300000
1257	8	18	80000	2	48(38,26,	4, 2, 6, 0, 0, 0, 0)	68	1121221220210331022202000000
1258	8	18	80000	2	96(39,28,	3, 2, 6, 0, 0, 0, 0)	68	1121221220210331022203000000
1259	8	18	80000	4	192(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1121222311213003200010002100
1260	8	18	80000	4	192(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1122311221213003200010002100
1261	8	18	80000	4	192(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1121222311122003200020002100
1262	8	18	80000	4	192(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1122311221122003200020002100
1263	8	18	80000	4	192(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1212123211212003200010002100
1264	8	18	80000	4	384(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1212123211212003200010003200
1265	8	18	80000	4	192(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1213212121212003200010002100
1266	8	18	80000	4	384(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1213212121212003200010003200
1267	8	18	80000	4	192(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1121222131213003200010002100
1268	8	18	80000	4	192(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1122131221213003200010002100
1269	8	18	80000	4	192(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1121222131122003200020002100
1270	8	18	80000	4	192(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1122131221122003200020002100
1271	8	18	80000	4	384(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1211232121212003200010003200
1272	8	18	80000	4	192(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1212121231212003200010002100
1273	8	18	80000	4	192(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1211232121212003200010002100
1274	8	18	80000	4	384(36,21,	7, 4, 3, 1, 0, 0, 0)	70	1212121231212003200010003200
1275	8	18	80000	1	48(36,22,	5, 4, 5, 0, 0, 0, 0)	70	1121222130120232013000100200
1276	8	18	80000	1	96(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121222130120232013000200300
1277	8	18	80000	1	48(36,22,	5, 4, 5, 0, 0, 0, 0)	70	1121222130120232013000200100
1278	8	18	80000	1	96(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121222130120232013000300200
1279	8	18	80000	1	48(37,23,	6, 3, 5, 0, 0, 0, 0)	70	1121222130120233022000100200
1280	8	18	80000	1	48(37,23,	6, 3, 5, 0, 0, 0, 0)	70	1121222130120233022000200100
1281	8	18	80000	1	48(38,26,	3, 4, 5, 0, 0, 0, 0)	70	1121222130210321022000200300
1282	8	18	80000	1	48(38,26,	3, 4, 5, 0, 0, 0, 0)	70	1121222130210321022000300200
1283	8	18	80000	1	48(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121222130210322013000200300
1284	8	18	80000	1	48(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121222130210322013000300200
1285	8	18	80000	1	48(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121222130210322013000200300
1286	8	18	80000	1	48(38,25,	5, 3, 5, 0, 0, 0, 0)	70	1121222130210322013000300200
1287	8	18	80000	24	2304(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1232121211320002100010022100
1288	8	18	80000	24	2304(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1211212321320002100010032100
1289	8	18	80000	24	2304(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1231212121320002100010032100
1290	8	18	80000	24	1152(32,14,10,	3, 4, 1, 0, 0, 0)	68	1321222111120002100010022100
1291	8	18	80000	24	1152(32,13,12,	2, 4, 1, 0, 0, 0)	70	1122113221120002100010032100
1292	8	18	80000	24	1152(32,13,12,	2, 4, 1, 0, 0, 0)	70	1231212121120002100010032100
1293	8	18	80000	24	2304(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1232121211230002100020022100
1294	8	18	80000	24	2304(35,19,	8, 4, 3, 1, 0, 0, 0)	70	1321222111230002100020022100
1295	8	18	80000	24	2304(34,18,	7, 5, 3, 1, 0, 0, 0)	70	1321222111320002100010022100
1296	8	18	80000	24	2304(34,17,	9, 4, 3, 1, 0, 0, 0)	70	1122113221320002100010032100
1297	8	18	80000	24	230			

GRAPH	N	L	C	SYMMETRY NUMBER	COUNT	CODE	TERM	GRAPH MATRIX
1299	8	18	80000	1	48(37,24, 4, 4, 5, 0, 0, 0, 0)	70	1121221220320201022200100030	
1300	8	18	80000	1	96(38,26, 3, 4, 5, 0, 0, 0, 0)	70	1121221220320201022200200020	
1301	8	18	80000	1	48(37,24, 4, 4, 5, 0, 0, 0, 0)	70	1121221220320201022200300010	
1302	8	18	80000	1	48(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1121222310210301022300100020	
1303	8	18	80000	1	96(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222310210301022300200030	
1304	8	18	80000	1	48(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1121222310210301022300200010	
1305	8	18	80000	1	96(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222310210301022300300020	
1306	8	18	80000	1	48(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1121222310210302013200100020	
1307	8	18	80000	1	96(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222310210302013200200030	
1308	8	18	80000	1	48(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1121222310210302013200200010	
1309	8	18	80000	1	96(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222310210302013200300020	
1310	8	18	80000	2	96(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1122132310210201020300102020	
1311	8	18	80000	2	96(36,23, 3, 5, 5, 0, 0, 0, 0)	70	1122131220320101020200201020	
1312	8	18	80000	2	96(37,23, 6, 3, 5, 0, 0, 0, 0)	70	1122132310210202030200102020	
1313	8	18	80000	2	96(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1122131220320101020200302010	
1314	8	18	80000	2	96(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1122132310210201020300201030	
1315	8	18	80000	2	96(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1122131220320102010300201020	
1316	8	18	80000	2	96(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1122131220320102010300302010	
1317	8	18	80000	2	96(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1122132310210201020300203010	
1318	8	18	80000	2	96(36,22, 5, 4, 5, 0, 0, 0, 0)	70	1122132310210202010200203010	
1319	8	18	80000	2	96(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1122131220320102030100302010	
1320	8	18	80000	2	96(37,23, 6, 3, 5, 0, 0, 0, 0)	70	1122131220320103020200201020	
1321	8	18	80000	2	96(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1122132310320101020300201020	
1322	8	18	80000	2	48(36,22, 5, 4, 5, 0, 0, 0, 0)	70	11221323103201020102010201020	
1323	8	18	80000	2	96(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1122132310320102010200302010	
1324	8	18	80000	2	48(36,22, 6, 2, 6, 0, 0, 0, 0)	68	1121221220120222013300000010	
1325	8	18	80000	2	192(38,26, 4, 2, 6, 0, 0, 0, 0)	68	1121221220120222013300000020	
1326	8	18	80000	2	192(39,28, 3, 2, 6, 0, 0, 0, 0)	68	1121221220120222013300000030	
1327	8	18	80000	2	48(36,22, 6, 2, 6, 0, 0, 0, 0)	68	1121221220210331022200000010	
1328	8	18	80000	2	192(38,26, 4, 2, 6, 0, 0, 0, 0)	68	1121221220210331022200000020	
1329	8	18	80000	2	192(39,28, 3, 2, 6, 0, 0, 0, 0)	68	1121221220210331022200000030	
1330	8	17	80000	6	288(32,13,11, 4, 3, 1, 0, 0, 0)	70	1321222111120002100012000010	
1331	8	17	80000	6	288(32,13,11, 4, 3, 1, 0, 0, 0)	70	123212121112000210001200010	
1332	8	17	80000	1	96(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121221220102223202000200000	
1333	8	17	80000	1	144(40,29, 3, 3, 5, 0, 0, 0, 0)	70	1121221220102223202000300000	
1334	8	17	80000	1	48(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1121222310201321202000100000	
1335	8	17	80000	1	192(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222310201321202000200000	
1336	8	17	80000	1	192(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121222310201321202000300000	
1337	8	17	80000	24	1152(32,13,11, 4, 3, 1, 0, 0, 0)	70	123212121112000210001000021	
1338	8	17	80000	24	1152(32,13,11, 4, 3, 1, 0, 0, 0)	70	132122211112000210001000021	
1339	8	17	80000	1	48(37,23, 6, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000000010	
1340	8	17	80000	1	192(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000000020	
1341	8	17	80000	1	192(40,29, 3, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000000030	
1342	8	17	80000	1	48(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000000010	
1343	8	17	80000	1	192(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000000020	
1344	8	17	80000	1	192(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000000030	
1345	8	17	80000	2	240(40,29, 3, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000000003	
1346	8	17	80000	2	48(37,23, 6, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000000001	
1347	8	17	80000	2	240(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000000002	
1348	8	17	80000	2	48(36,21, 7, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000000001	
1349	8	17	80000	2	192(38,25, 5, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000000002	
1350	8	17	80000	2	192(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000000003	
1351	8	17	80000	4	192(32,13,11, 4, 3, 1, 0, 0, 0)	70	1123222111120002100012010000	
1352	8	17	80000	2	96(34,17, 9, 3, 5, 0, 0, 0, 0)	70	1122132102320011020002010001	
1353	8	17	80000	2	48(37,23, 6, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000100000	
1354	8	17	80000	2	192(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000020000	
1355	8	17	80000	2	192(40,29, 3, 3, 5, 0, 0, 0, 0)	70	1121221220120223022000030000	
1356	8	17	80000	2	48(39,27, 4, 3, 5, 0, 0, 0, 0)	70	1121222130210321022000300000	
1357	8	17	80000	4	192(34,19, 7, 4, 5, 0, 0, 0, 0)	70	2111322210100202001010210200	
1358	8	17	80000	4	192(34,17, 9, 3, 5, 0, 0, 0, 0)	70	2111232120100202001010210300	
1359	8	17	80000	4	192(34,17, 9, 3, 5, 0, 0, 0, 0)	70	2111322210100202001010320100	
1360	8	17	80000	4	192(34,17, 9, 3, 5, 0, 0, 0, 0)	70	1211233210100202001010210200	
1361	8	17	80000	2	24(30,10,12, 2, 6, 0, 0, 0, 0)	68	1121201022201012110002101000	
1362	8	17	80000	2	96(33,15,10, 3, 5, 0, 0, 0, 0)	70	1121201022202020110002101000	
1363	8	17	80000	2	48(33,15,10, 3, 5, 0, 0, 0, 0)	70	1121201022201013220002101000	
(8,2)	1	8	21	71000	5040	-2822400(34,18, 9, 3, 3, 0, 0, 1, 0)	68	1121222131211322311220000000
	2	8	19	71000	48	-16128(37,23, 6, 6, 0, 1, 1, 0, 0)	70	1211211232321223213000000000
	3	8	19	71000	48	-16128(37,23, 6, 6, 0, 1, 1, 0, 0)	70	1211212123232123213000000000
	4	8	19	71000	48	-32256(36,21, 8, 4, 1, 1, 1, 0, 0)	70	1211211232232113213000000000
	5	8	19	71000	48	-32256(36,21, 8, 4, 1, 1, 1, 0, 0)	70	1211213212232113213000000000
	6	8	18	71000	48	-4224(40,32, 0, 0, 8, 0, 0, 0, 0)	64	1101221220122221222200000000
	7	8	18	71000	8	-31488(38,25, 6, 3, 2, 2, 0, 0, 0)	70	1122101223213212132000000000
	8	8	18	71000	8	-15744(38,26, 4, 4, 2, 2, 0, 0, 0)	68	1212101233212212122000000000
	9	8	18	71000	36	-65664(36,21, 8, 3, 3, 0, 1, 0, 0)	70	2111323122221112210000000000
	10	8	18	71000	36	-134784(37,23, 6, 5, 2, 0, 1, 0, 0)	70	2112232212312112210000000000
	11	8	17	71000	4	-8448(40,30, 2, 2, 6, 0, 0, 0, 0)	68	1121221022230131220000000000
	12	8	17	71000	4	-7972(39,26, 4, 3, 4, 1, 0, 0, 0)	68	1212122120321102102200000000
	13	8	17	71000	4	-8256(40,29, 3, 4, 3, 1, 0, 0, 0)	70	1212122120232202102200000000
	14	8	17	71000	4	-15744(38,25, 5, 5, 1, 2, 0, 0, 0)	70	1121222131122003202100000000
	15	8	17	71000	4	-15744(38,25, 5, 5, 1, 2, 0, 0, 0)	70	1211232121212003202100000000
	16	8	16	71000	2	-4320(41,31, 2, 3, 5, 0, 0, 0, 0)	70	1121221202102223220000000000
	17	8	16	71000	2	-4224(40,29, 3, 3, 5, 0, 0, 0, 0)	70	1121222301203121220000000000
(9,1)	1	9	32	90000	1	24(31,11,11, 2, 5, 1, 0, 0, 1)	66	
	2	9	32	90000	1	24(33,13,12, 1, 6, 0, 0, 0, 1)	70	
	3	9	28	90000	1	24(36,21, 6, 1, 5, 2, 1, 0, 0)	66	
	4	9	28	90000	1	26(36,20, 8, 0, 4, 4, 0, 0, 0)	68	

REFERENCES

- BAGATSKII, M.I., et. al. 1962. Zh. Eksper. Teor. 43, 728
(Soviet Physics - JETP 16, 517 (1963)).
- BAKER, G.A. Jr. 1961. Phys. Rev. 124, 768.
- BAKER, G.A. Jr. 1965. Advances in Theoretical Physics I,
Ed. K.A. Brueckner (New York Academic Press).
- BAKER, G.A. Jr., and GAUNT, D.S. 1967. Phys. Rev. 155, 545.
- BAKER, G.A. Jr., GILBERT, H.E., EVE, J. and RUSHBROOKE, G.S.
1967. Brookhaven National Laboratory Report
No. BNL 50053.
- BETTS, D.D., ELLIOTT, C.J. and LEE, M.H. 1969a. Phys.
Letters 29A, 150.
- BETTS, D.D., ELLIOTT, C.J. and LEE, M.H. 1969b. (to be
published).
- BUCKINGHAM, M.J. and GUNTON, J.D. 1968. Phys. Rev. 178, 848.
- DOMB, C. 1949. Proc. Roy. Soc. A199, 199.
- DOMBS, C. and SYKES, M.F. 1957a. Proc. Roy. Soc. A. 240, 214.
- DOMB, C. and SYKES, M.F. 1957b. Phys. Rev. 108, 1415.
- DOMB, C. 1960. Advanc. Phys. 9, Nos. 34,35.
- DOMB, C. and MIEDEMA, A.R. 1964. Progress in Low Temperature
Physics IV, Ed. C.J. Gorter (Amsterdam: North-
Holland), chap. 4.
- ESSAM, J.W. and FISHER, M.E. 1963. J. Chem. Phys. 38, 802.
- ESSAM, J.W. and HUNTER, D.L. 1968. Proc. Phys. Soc. 1, 392.
- FISHER, M.E. 1967. Rep. Prog. Phys. XXX, 615.
- FISHER, M.E. 1969. Phys. Rev. 180, 594.
- GAUNT, D.S. 1967. Proc. Phys. Soc. 92, 150.
- GRIFFITHS, R.B. 1965. Phys. Rev. Letters. 14, 623.

- GUTTMANN, A.J. and THOMPSON, C.J. 1969. Phys. Letters 28A, 679.
- GUTTMANN, A.J. 1969. (to be published)
- HEAP, B.R., Private Communication
- HELLER, P. and BENEDEK, G.B. 1965. Phys. Rev. Letters. 14, 71.
- HELLER, P. 1967. Rep. Progr. Phys. 30, 731.
- HUNTER, D.L. 1967. Ph.D. Thesis (University of London).
- HUNTER, D.L., ESSAM, J.W. 1968. J. Phys. C(Proc. Soc.) 1, 392-407.
- ISING, E. 1925. Z. Phys. 31, 253.
- KADANOFF, L.P., et. al. 1967. Rev. Mod. Phys. 39, 395-431.
- LEU, J.A. 1969. (to be published).
- MARTIN, J.L. 1962. Proc. Cambridge Phil. Soc. 58, 92.
- NOAKES, J.E. and ARROTT, A. 1967. J. Appl. Phys. 38, 973.
- ONSAGER, L. 1944. Phys. Rev. 65, 117.
- RUSHBROOKE, G.S. 1963. J. Chem. Phys. 39, 842.
- SYKES, M.F., ESSAM, J.W. and GAUNT, D.S. 1965. J. Math. Phys. 6, 283.
- SYKES, M.F., ESSAM, J.W., HEAP, B.R. and HILEY, B.J. 1966. J. Math. Phys. 7, 1557.
- SYKES, M.F., MARTIN, J.L. and HUNTER, D.L. 1967. Proc. Phys. Soc. 91, 671.
- SYKES, M.F. 1969. (Private Communication).
- TEANEY, D.T. 1966. Critical Phenomena, Misc. Publ. No. 273, Eds. M.S. Green and J.V. Sengers (Washington: National Bureau of Standards), p.50.
- UHLENBECK, G.E. and FORD, G.W. 1962. Studies in Statistical Mechanics B, ed. Boer, J. de and Uhlenbeck, G.E., (North-Holland Publishing Company, Amsterdam).

VORONEL, A.V., et.al. 1964. Soviet Physics, JETP. 18, 568.

VORONEL, A.V., et.al. 1965. Soviet Physics, JETP. 21, 953.

VORONEL, A.V., et.al. 1966. Soviet Physics, JETP. 23, 597.

WEINBERGER, M.A. and SCHNEIDER, W.G. 1952. Canad. J. Chem
30, 422, 847.

WIDOM, B., 1965. J. Chem. Phys. 43, 3898.

BAKER, G.A., Jr., GILBERT, H.E., EVE, J., and RUSHBROOKE, G.S.,
1966. Phys. Letters. 20, 146.

NAGLE, J., 1966. J. Math. Phys. 7, 1588.

B29932